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IRREGULAR PLANFORM WINGS AT MACH NUMBER 0.3
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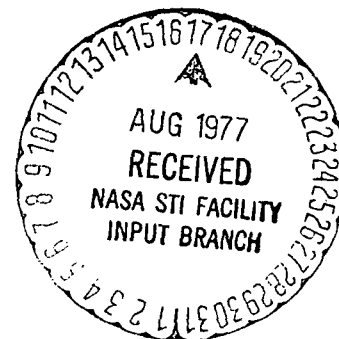
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16. Abstract A wind-tunnel investigation was conducted to determine the subsonic aerodynamic characteristics of a series of irregular planform wings. The tests were conducted at $M = 0.3$ over a range of Reynolds numbers from 1.6×10^6 to $26 \times 10^6/m$. The five basic wing planforms varied from a trapezoidal to a delta shape. Leading edge extensions, added to the basic shape, varied in approximately 5° increments from the wing leading edge sweep-back angle to a maximum of 80° . Most of the tests were conducted using an NACA 0008 airfoil section with grit boundary layer trips. Tests were also conducted using an NACA 0012 airfoil section and an 8-percent thick wedge. In addition, the effect of free transition (no grit) was investigated. A body was used on all models.			
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SUMMARY

A wind tunnel investigation was conducted to determine the subsonic aerodynamic characteristics of a series of irregular planform wings. The tests were conducted at $M = 0.3$ over a range of Reynolds numbers from 1.6×10^6 to $26 \times 10^6/m$.

The five basic wing planforms varied from a trapezoidal to a delta shape. Leading edge extensions, added to the basic shape, varied in approximately 5° increments from the wing leading edge sweep-back angle to a maximum of 80° . Most of the tests were conducted using an NACA 0008 airfoil section with grit boundary layer trips. Tests were also conducted using an NACA 0012 airfoil section and an 8-percent thick wedge. In addition, the effect of free transition (no grit) was investigated. A body was used on all models.

INTRODUCTION

The Langley Research Center of the National Aeronautics and Space Administration recently initiated an experimental and analytical program with the purpose of ultimately developing a predesign guide for irregular planform wings; a primary goal is to provide design guides regarding lift, pitch, and drag-due-to-lift characteristics for these planforms. The benefits to be derived from the use of an irregular planform wing (also referred to as cranked leading-edge or double delta wings) are linearization of subsonic lift-curve slope to high angles of attack and avoidance of subsonic pitch instabilities at high lift by proper tailoring of the leading edge extension-wing combination; the desired hypersonic trim angle and stability are also provided. Because subsonic and hypersonic conditions were the two prime areas of concern in the initial application of this program — designed to optimize shuttle Orbiter landing and entry characteristics — the study was designated the subsonic hypersonic irregular planforms study (SHIPS).

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Although the initial efforts in the SHIPS Program were directed toward improving shuttle Orbiter design, the program also has applications in the design of advanced fighters or advanced aerospace vehicles. The purpose of the initial phase of the overall SHIPS program was to determine the sensitivity of the subsonic aerodynamic characteristics to Reynolds number for a systematic series of isolated irregular planform wings having variations in airfoil section and sweep. Five basic wing planforms of constant area, span, aspect ratio, and leading-edge sweep variations from 25° (trapezoidal) to 60° (delta) were tested in conjunction with a series of leading edge extensions ranging with sweeps from 80° down to the basic wing sweep in approximately 5° increments.

The investigation was made in the Ames 12-Foot Pressure Wind Tunnel at a free-stream Mach number of 0.3 and at Reynolds numbers of 1.6×10^6 to 26×10^6 per meter.

NOMENCLATURE

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
A		area
A_{ref}		basic wing aspect ratio, $\frac{b^2}{S}$
A_{TRUE}		wing aspect ratio, $\frac{b^2}{S}$
b	BREF	wing span
C_A	CA	body axis axial-force coefficient, $\frac{\text{axial force}}{q_\infty S}$
	CBL	body axis rolling-moment coefficient, $\frac{\text{rolling moment}}{q_\infty S b}$
C_D	CD	total drag coefficient, $\frac{\text{total drag force}}{q_\infty S}$
C_L	CL	lift coefficient, $\frac{\text{lift force}}{q_\infty S}$
C_{l_s}	CSL	stability axis rolling-moment coefficient, $\frac{\text{rolling moment}}{q_\infty S b}$
C_m	CLM	pitching-moment coefficient, $\frac{\text{pitching moment}}{q_\infty S \bar{c}}$

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
C_N	CN	body axis normal-force coefficient, $\frac{\text{normal force}}{q_\infty S}$
C_n	CLN	stability axis yawing-moment coefficient, $\frac{\text{yawing moment}}{q_\infty S b}$
	CPCAV	balance cavity pressure coefficient, $\frac{p_\infty - p_c}{q_\infty}$
C_R		wing root chord
C_Y	CY	side-force coefficient, $\frac{\text{side force}}{q_\infty S}$
	CYN	body axis yawing-moment coefficient, $\frac{\text{yawing moment}}{q_\infty S b}$
	GRITNO	.000 = no grit; 120.000 = 0.000122 m dia (average) carborundum grit
$\bar{c}$	LREF	mean aerodynamic chord
L/D	L/D	stability axis lift-to-drag ratio, CL/CD
M	MACH	Mach number
p		pressure
q	Q(NSM)	dynamic pressure, Newtons/square meter
RN/M	RN/M	unit Reynolds number, $10^6/m$
	SCALE	.0000 = no scale
S	SREF	reference planform area
S_{ref}		basic wing planform area
T/C	T/C	ratio of wing thickness to chord
	XMRP	moment reference center location aft of nose ($0.25\bar{c}$)
	YMRP	moment reference center location spanwise from model centerline

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Definition</u>
	ZMRP	moment reference center location vertically from air-foil centerline
$\bar{x}$		distance from nose to $\bar{c}$
Y		spanwise distance from model centerline to intersection of leading edge extension and wing leading edge
$\bar{y}$		spanwise distance from model centerline to $\bar{c}$
α	ALPHA	angle of attack
β	BETA	angle of sideslip
$\Lambda_{c/4,eff}$		effective quarter chord sweep angle
$\Lambda_{c/2,eff}$		effective half chord sweep angle
Λ_f	FILSWP	leading edge extension sweep angle
Λ_{LE}	LESWP	wing leading edge sweep angle
Λ_{TE}	TESWP	wing trailing edge sweep angle

Subscripts

c	balance cavity
t	total condition
unc	uncorrected
∞	free-stream conditions

CONFIGURATION NOMENCLATURE

Configuration	Wing Number	Λ_{LE}	Λ_{TE}	Λ_f	Section
1XX	I	25°	25°	XX°	NACA 0008
2XX	II	35°	20°	XX°	NACA 0008
3XX	III	45°	15°	XX°	NACA 0008
4XX	IV	53°	7°	XX°	NACA 0008
5XX	V	60°	0°	XX°	NACA 0008

For the above table, $XX_{\text{maximum}} = 80$, and $XX^\circ_{\text{maximum}} = 80^\circ$. For XX greater than 80, the following table applies (NOTE: wing number refers to basic planform):

Configuration	Wing Number	Λ_{LE}	Λ_{TE}	Λ_f	Section
581	II	35°	20°	35°	sharp leading edge wedge, T/C = 0.08
582	II	35°	20°	80°	sharp leading edge wedge, T/C = 0.08
583	V	60°	0°	60°	sharp leading edge wedge, T/C = 0.08
584	V	60°	0°	80°	sharp leading edge wedge, T/C = 0.08
585	I	25°	25°	25°	NACA 0012
586	I	25°	25°	60°	NACA 0012
587	I	25°	25°	80°	NACA 0012

TEST FACILITY

The Ames 12-Foot Pressure Wind Tunnel is a variable density, low-turbulence wind tunnel that operates in the Mach number range of 0.1 to 0.94. The wind tunnel is powered by a two-stage, axial flow fan driven by electric motors with a combined power of 12,000 hp. Airspeed in the test section is controlled by variation of the fan's rotative speed. Eight fine-mesh screens in the settling chamber and a contraction ratio of 25 to 1 provide an airstream of exceptionally low turbulence.

MODEL DESCRIPTION

The investigation was conducted using a series of five basic planforms, each with a series of leading edge extensions, that provided a total of 35 planform variations:

Wing Number	Leading Edge Sweep	Maximum Leading Edge Extension Sweep
I	25°	80°
II	35°	80°
III	45°	80°
IV	53°	80°
V	60°	80°

Leading edge extension sweeps generally varied from the leading edge extension-off configuration (i.e., leading edge extension sweep identical to wing leading edge sweep) to the maximum leading edge extension sweep in 5° increments. The intersection of the leading edge extension with the wing leading edge occurs at 41 percent of the semispan in all cases. This point was chosen so as to be comparable with the shuttle orbiter design. All wing sections were NACA 0008 sections except for three of the Wing I planforms that had NACA 0012 sections. Two of the Wing II planforms and two of the Wing V planforms had sharp leading edge wedge airfoil sections.

Model geometric characteristics are given in tables 1 and 2, model drawings are presented in figures 1 and 2, and installation photographs are shown in figure 3.

TESTING AND PROCEDURE

Static forces and moments on the models were measured with a sting-supported six-component strain-gage balance (Langley Balance No. IR16) at $M = 0.30$ and Reynolds numbers of 1.6×10^6 to $26 \times 10^6/m$. The angle of attack was varied from -2° to 24° at 0° sideslip angle.

Boundary layer transition grit strips were used for all but a very limited portion of the data. The fuselage grit strip was located one-tenth of the total fuselage length measured from the nose, and the wing grit strip and leading edge extension grit strip were both located 0.0127m (in the streamwise direction) from the leading edge. All transition strip widths were a nominal 0.00254m. Carborundum grit with an average diameter of 0.000122m was used.

The balance cavity pressure was measured with two 12.5 psid transducers and angle of attack was determined from the output of an Ames pendulous

angle sensor mounted at the base of the sting.

DATA REDUCTION

Aerodynamic force and moment data were resolved in the body and stability axes systems. These axes systems and sign conventions are shown in figure 4. The computations of force and moment coefficients were based on the projected planform dimensions given in tables 1 and 2. Moment data are referenced to the model moment reference which is $0.25\bar{c}$.

The measured angle of attack was corrected for sting and balance deflections due to wind loads and for tunnel wall effects by the following equation (ref. 1):

$$\alpha = \alpha_{unc} + 0.048 C_L$$

Stream-angle corrections are not necessary in the 12-foot tunnel.

Corrections due to wall effects were made to the drag and pitching moment coefficients according to the following equations:

$$C_D = C_{D_{unc}} + 0.00075 C_L^2$$

$$C_m = C_{m_{unc}} + 0.00082 C_L$$

Axial force data were corrected for balance cavity pressure according to the following equation:

$$C_A = C_{A_{unc}} - \frac{(P_\infty - P_c)A_c}{q_\infty S}$$

Tunnel conditions were corrected for blockage by the method of reference 2.

RESULTS AND DISCUSSION

Listed in table 3 are the configuration and corresponding page numbers of the tabulated data, while in table 4 are listed the figures in which selected coefficients are presented.

Effects of Reynolds Number on Planform Shape, NACA 0008 Airfoil

Figures 5-39 present the results showing the effect of Reynolds number on longitudinal characteristics as the basic wing planform and leading edge extension angle are systematically changed. The basic planforms vary from the trapezoidal shape, Wing I, to the delta shape, Wing V. The leading edge extension sweepback angle is increased from the wing leading edge sweepback angle to 80° . These wings had the NACA 0008 airfoil section with grit boundary layer trips. The results of tests of the basic planforms show that increasing the Reynolds number generally results in a decrease in C_L . Progressively changing the wing planform from I to V tends to linearize the curve. Increasing the leading edge extension sweep angle has the same effect.

The axial force coefficient C_A decreases generally with increasing Reynolds number. This Reynolds number effect is sizable for the basic Wing I above about 15° ; however, it is reduced considerably as leading edge extension sweep angle or wing number is increased. As leading edge extension sweep angle or wing number is increased the data becomes less nonlinear.

The drag-due-to-lift data, presented as C_D vs C_L , indicate that in general C_D decreases with increasing Reynolds number. This Reynolds number effect decreases with an increase in leading edge extension sweep angle or wing number, or both.

The pitching moment coefficient, CLM , for Wing I is seen to move in the positive CLM direction with increasing Reynolds number. As basic wing number is increased the Reynolds number effect, in general, decreases. However, an anomalous case exists for basic Wing II in which the Reynolds number effect appears to be greater than with basic Wing I. Increasing the leading edge extension sweep angle also reduces the Reynolds number effect.

The pitching moment coefficient for basic Wing I is seen to be nonlinear with a region of instability at the higher Reynolds numbers. As either wing number or leading edge extension sweep angle is increased the configuration becomes stable at all Reynolds numbers, and the pitching moment tends to become more linear.

The Reynolds number effect on L/D is the greatest at maximum L/D where an increasing Reynolds number resulted in an increasing L/D . The Reynolds number effect was reduced considerably for all wings by addition of only the smallest leading edge extension.

Effect of Reynolds Number on Free Transition

Figure 40 shows the effect of Reynolds number using Wing I with the 80° leading edge extension and free transition (no grit). Comparing

these results with those from tests using the same planform but with grit (fig. 6) shows that the trends with Reynolds number are, for all practical purposes, the same and that the magnitudes of the results are comparable.

Comparison of Airfoil and Wedge Section

The data from tests using two different wing sections, the NACA 0008 and an 8-percent thick sharp leading edge wedge, are presented in figures 41-44. Wing planforms II and V were used with and without an 80° sweep angle leading edge extension. All wings had grit boundary layer trips and were tested at one Reynolds number, $13 \times 10^6/m$. It is seen that the wedge section has nearly the same or lower C_L , a higher C_A , and higher drag due to lift values that show the greatest increase in the configurations with no leading edge extension. In addition, the wedge section is less statically stable with a region of instability for Wing II wedge section without leading edge extension. For all wedge sections the L/D is lower. The results for Wing V without leading edge extensions show a "jump" in the data. This inconsistency is possibly the result of a shift in the balance output. It is most apparent in the CLM data where the flagged symbols are felt to be a more realistic representation of the results.

Effects of Reynolds Number, NACA 0012 Airfoil

The effects of Reynolds number on the longitudinal aerodynamics characteristics of the Wing I planform with the NACA 0012 section are shown in figures 45-49. The configuration was tested with and without grit, and leading edge extension sweep angles of 80°, 60°, and 0°.

Figures 45 and 46 present data, from tests in which the 80° leading edge extensions were used, with and without grit, respectively. It is seen that the Reynolds number effect is nearly the same for both the grit and no grit cases. A small difference is seen in C_A at $\alpha = 0^\circ$. In the grit case the effect is insignificant while in the case of no grit a Reynolds number increase produces a slight decrease in C_A . Also for the no grit case the maximum L/D increases with increasing Reynolds number, while in the case of grit there is negligible Reynolds number effect.

Data are presented in figures 45, 47, and 48 from tests in which the leading edge extension sweep angle of the grit model was progressively reduced, the angles being 80°, 60°, and 0°, respectively. As it is reduced the data becomes more nonlinear and Reynolds number dependent.

In figures 48 and 49, the results are presented for the cases of grit and no grit, respectively, on basic Wing I. The Reynolds number effect was essentially the same with comparable magnitudes. However, for the grit case there is a greater Reynolds number dependence at maximum L/D, an

increase with increasing Reynolds number. Also at $\alpha = 0^\circ$, C_A decreases slightly with increasing Reynolds number.

Effect of Reynolds Number on Free Transition, NACA 0008 and NACA 0012 Airfoil Sections

The results of tests using an NACA 0012 (12-percent thick) and NACA 0008 airfoil (8-percent thick) section are given in figures 49 and 50, respectively. The data are presented for basic Wing I with no grit.

The lift coefficient, C_L , is seen to have nearly the same slope for both cases for angles of attack to about 15° ; up to that angle of attack there is essentially no Reynolds number dependence. However, above that angle of attack an increase in Reynolds number results in an increase in C_L . In this region the NACA 0012 airfoil is more Reynolds-number dependent.

At 0° angle of attack there is a spread of about 10 percent in the data for the axial force coefficient, C_A , for the NACA 0008 airfoil; the spread appears to be scatter. For the NACA 0012 airfoil the spread is insignificant. At angles of attack greater than about 10° , both configurations are Reynolds-number dependent; an increase in Reynolds number produces a larger negative axial force coefficient. In this region the NACA 0012 airfoil has about twice the negative C_A as the NACA 0008 airfoil.

The drag-due-to-lift for the NACA 0008 airfoil increases at a faster rate than that for the NACA 0012 airfoil, and is slightly Reynolds-number dependent. The data for the NACA 0012 airfoil has no Reynolds number dependency at the lower angles of attack; however, at the larger angles the dependency is significant.

The NACA 0008 airfoil is more statically stable throughout the angle-of-attack range. Both configurations have a region of instability in the middle of angle-of-attack range. Generally, an increasing Reynolds number results in a decrease in the level of stability; however, for the NACA 0012 airfoil near $\alpha = 0^\circ$ the opposite is true.

The L/D is seen to be somewhat Reynolds-number dependent at the maximum L/D, an increasing Reynolds number resulting in an increasing L/D. The spread in the NACA 0012 airfoil data falls within the spread of the NACA 0008 airfoil data at maximum L/D.

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May 9, 1977

REFERENCES

1. Sivells, James C., and Salmi, Rachel M: *Jet-Boundary Corrections for Complete and Semispan Swept Wings in Closed Circular Wind Tunnels*. NACA TN2454, 1951.
2. Herriot, John G.: *Blockage Corrections for Three-Dimensional Flow, Closed-Throat Wind Tunnels with Consideration of the Effects of Compressibility*. NACA Report 995, 1950.

TABLE 1. - GEOMETRIC CHARACTERISTICS OF BASIC WINGS

Wing I

Leading edge sweep, deg	25
Trailing edge sweep, deg.....	25
Quarter-chord sweep, deg.....	13.12427
Half-chord sweep, deg	0.00000
Aspect ratio	2.26500
Taper ratio	.30882
Planform area, m ² (ft ²).....	.04898 (0.52724)
Span, m (ft)	.33307 (1.09279)
Root chord, m (ft)	.22471 (.73726)
Tip chord, m (ft)	.06939 (.22768)
Mean aerodynamic chord, m (ft)	.16073 (.52733)
Longitudinal location of mean aerodynamic chord($\bar{x}$),m(ft).....	.03199 (.10497)
Spanwise location of mean aerodynamic chord ($\bar{y}$),m(ft)	.06861 (.22511)
Airfoil sections	NACA 0008, 0012

Wing II

Leading edge sweep, deg	35
Trailing edge sweep, deg.....	20
Quarter-chord sweep, deg.....	23.46871
Half-chord sweep, deg	9.54388
Aspect ratio	2.26500
Taper ratio	.24798
Planform area, m ² (ft ²)	.04898 (0.52724)
Span, m (ft)	.33307 (1.09279)
Root chord, m (ft)	.23567 (.77320)
Tip chord, m (ft)	.05844 (.19174)
Mean aerodynamic chord, m (ft)	.16486 (.54088)
Longitudinal location of mean aerodynamic chord($\bar{x}$),m(ft).....	.04659 (.15287)
Spanwise location of mean aerodynamic chord ($\bar{y}$),m(ft)	.06654 (.21832)
Airfoil section	NACA 0008, Double Wedge

TABLE 1. - Continued.

Wing III

Leading edge sweep, deg	45
Trailing edge sweep, deg	15
Quarter-chord sweep, deg	34.33357
Half-chord sweep, deg	20.10485
Aspect ratio	2.26500
Taper ratio	.16416
Planform area, m ² (ft ²)	.04898 (0.52724)
Span, m (ft)	.33307 (1.09279)
Root chord, m (ft)	.25263 (.82887)
Tip chord, m (ft)	.04147 (.13607)
Mean aerodynamic chord, m (ft)	.17232 (.56538)
Longitudinal location of mean aerodynamic chord($\bar{x}$),m(ft)	.06334 (.20782)
Spanwise location of mean aerodynamic chord($\bar{y}$),m(ft)	.10775 (.35351)
Airfoil sections	NACA 0008

Wing IV

Leading edge sweep, deg	53
Trailing edge sweep, deg	7
Quarter-chord sweep, deg	43.96733
Half-chord sweep, deg	31.05545
Aspect ratio	2.26500
Taper ratio	.098334
Planform area, m ² (ft ²)	.04898 (0.52724)
Span, m (ft)	.33307 (1.09279)
Root chord, m (ft)	.26778 (.87856)
Tip chord, m (ft)	.02633 (.08639)
Mean aerodynamic chord, m (ft)	.18009 (.59086)
Longitudinal location of mean aerodynamic chord($\bar{x}$),m(ft)	.08026 (.26339)
Spanwise location of mean aerodynamic chord($\bar{y}$),m(ft)	.06048 (.19844)
Airfoil sections	NACA 0008

TABLE 1. - Concluded.

Wing V

Leading edge sweep, deg	60
Trailing edge sweep, deg.....	0
Quarter-chord sweep, deg.....	52.41091
Half-chord sweep, deg	40.89615
Aspect ratio	2.26500
Taper ratio	.00969
Planform area, m ² (ft ²).....	.04898 (0.52724)
Span, m (ft)	.33307 (1.09279)
Root chord, m (ft).....	.29128 (.95566)
Tip chord, m (ft)	.00282 (.00926)
Mean aerodynamic chord, m (ft)	.19421 (.63717)
Longitudinal location of mean aerodynamic chord($\bar{x}$),m(ft).....	.09708 (.31850)
Spanwise location of mean aerodynamic chord($\bar{y}$),m(ft)	.05605 (.18389)
Airfoil sections	NACA 0008, Double Wedge

TABLE 2. - GEOMETRIC CHARACTERISTICS OF WING-LEADING EDGE EXTENSION COMBINATIONS TESTED

Wing I: $\Lambda_{LE} = 25^\circ$; $\Lambda_{TE} = 25^\circ$; $S_{ref} = 0.04898 \text{ m}^2$; $A_{ref} = 2.26500$

Λ_f , deg	80	75	70	65	60	55	45	35
$\Lambda_{c/4,eff}$, deg	56.9706	49.7656	44.0165	39.0915	34.7258	30.7894	23.9277	18.1252
$\Lambda_{c/2,eff}$, deg	56.2424	46.3857	38.0010	30.8123	24.6805	19.4625	11.1867	4.9436
A_{TRUE}	1.51076	1.72474	1.85838	1.95096	2.01978	2.07369	2.15470	2.21530
S, m^2	.07343	.06432	.05969	.05686	.05493	.05350	.05149	.05008
C_R, m	.58147	.44855	.38107	.33974	.31147	.29064	.26129	.24074
$\bar{c}, \text{m}$	.32187	.25502	.22362	.20549	.19363	.18522	.17390	.16636
$\bar{x}, \text{m}$	.23471	.16664	.12929	.10523	.08816	.07523	.05644	.04286
$\bar{y}, \text{m}$	.05337	.05770	.06040	.06227	.06366	.06475	.06639	.06761
$y/b/2$	.41157	.41157	.41157	.41157	.41157	.41157	.41157	.41157

TABLE 2. - Continued.

Wing II: $\Lambda_{LE} = 35^\circ$; $\Lambda_{TE} = 20^\circ$; $S_{ref} = 0.04898 \text{ m}^2$; $A_{ref} = 2.26500$

[illegible]

TABLE 2. - Continued.

Wing III: $\Lambda_{LE} = 45^\circ$; $\Lambda_{TE} = 15^\circ$; $S_{ref} = 0.04898 \text{ m}^2$; $A_{ref} = 2.26500$

[illegible]

TABLE 2. - Concluded.

Wing V: $\Lambda_{LE} = 60^\circ$; $\Lambda_{TE} = 0^\circ$; $S_{ref} = 0.04898 \text{ m}^2$; $A_{ref} = 2.26500$

Λ_f, deg	80	75	70	65	60	55	45	35
$\Lambda_{c/4, \text{eff}}, \text{deg}$	70.5664	65.0614	60.3712	56.1989				
$\Lambda_{c/2, \text{eff}}, \text{deg}$	63.8712	56.2341	50.0551	45.0103				
A_{TRUE}	1.64391	1.90048	2.06404	2.17887				
S, m^2	.06749	.05838	.05375	.05092				
$6l \ C_R, m$	.56129	.42837	.36088	.31955				
$\bar{c}, m$	.32837	.25869	.22578	.20669				
$\bar{x}, m$	.23292	.16968	.13511	.11286				
$\bar{y}, m$	.04604	.05070	.05310	.05478				
$Y/b/2$	.41157	.41157	.41157	.41157				

TABLE 3. - INDEX OF TABULATED DATA

Wing	Description	Configuration	Grit No.	Page
I	25-25-0008	125	120.000	1-2,79-80
I	25-80-0008	180		3-4,81-82
I	25-75-0008	175		5-6,83-84
I	25-70-0008	170		7-8,85-86
I	25-65-0008	165		9-10,87-88
I	25-60-0008	160		11-12,89-90
I	25-55-0008	155		13-14,91-92
I	25-45-0008	145		15-16,93-94
I	25-35-0008	135		17-18,95-96
II	35-35-0008	235		19-20,97-98
II	35-80-0008	280		21-22,99-100
II	35-75-0008	275		23-24,101-101
II	35-70-0008	270		25-26,103-104
II	35-65-0008	265		27-28,105-106
II	35-60-0008	260		29-30,107-108
II	35-55-0008	255		31-32,109-110
II	35-45-0008	245		33,111
III	45-45-0008	345		34-35,112-113
III	45-80-0008	380		36-37,114-115
III	45-75-0008	375		38-39,116-117
III	45-70-0008	370		40,118
III	45-65-0008	365		41,119
III	45-60-0008	360		42,120
III	45-55-0008	355		43,121
IV	53-53-0008	453		44-45,122-123
IV	53-80-0008	480		46-47,124-125
IV	53-75-0008	475		48-49,126-127
IV	53-70-0008	470		50,128
IV	53-65-0008	465		51,129
IV	53-60-0008	460		52,130
V	60-60-0008	560		53-54,131-132
V	60-80-0008	580		55-56,133-134
V	60-75-0008	575		57-58,135-136
V	60-70-0008	570		59,137
V	60-65-0008	565		60,138
I	25-25-0012	585		61-62,139-140
I	25-80-0012	587		63-64,141-142
I	25-60-0012	586		65-66,143-144
II	35-35-WEDGE	581		67,145
II	35-80-WEDGE	582		68,146
V	60-60-WEDGE	583		69,147
V	60-80-WEDGE	584		70,148
I	25-25-0012	585	.000	71-72,149-150
I	25-80-0012	587		73-74,151-152
I	25-25-0008	125		75-76,153-154
I	25-80-0008	180		77-78,155-156

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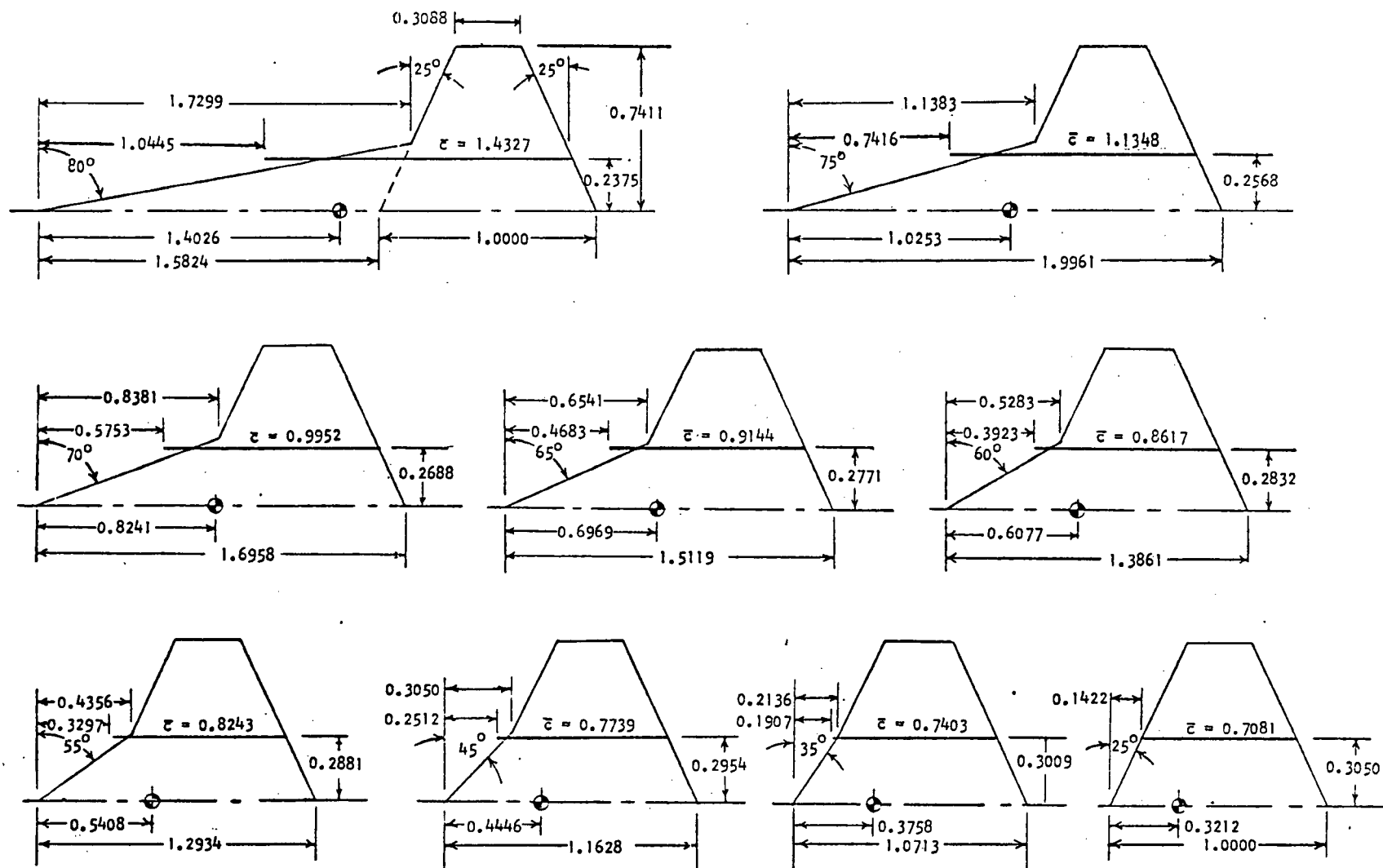
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Table 4. - Concluded.

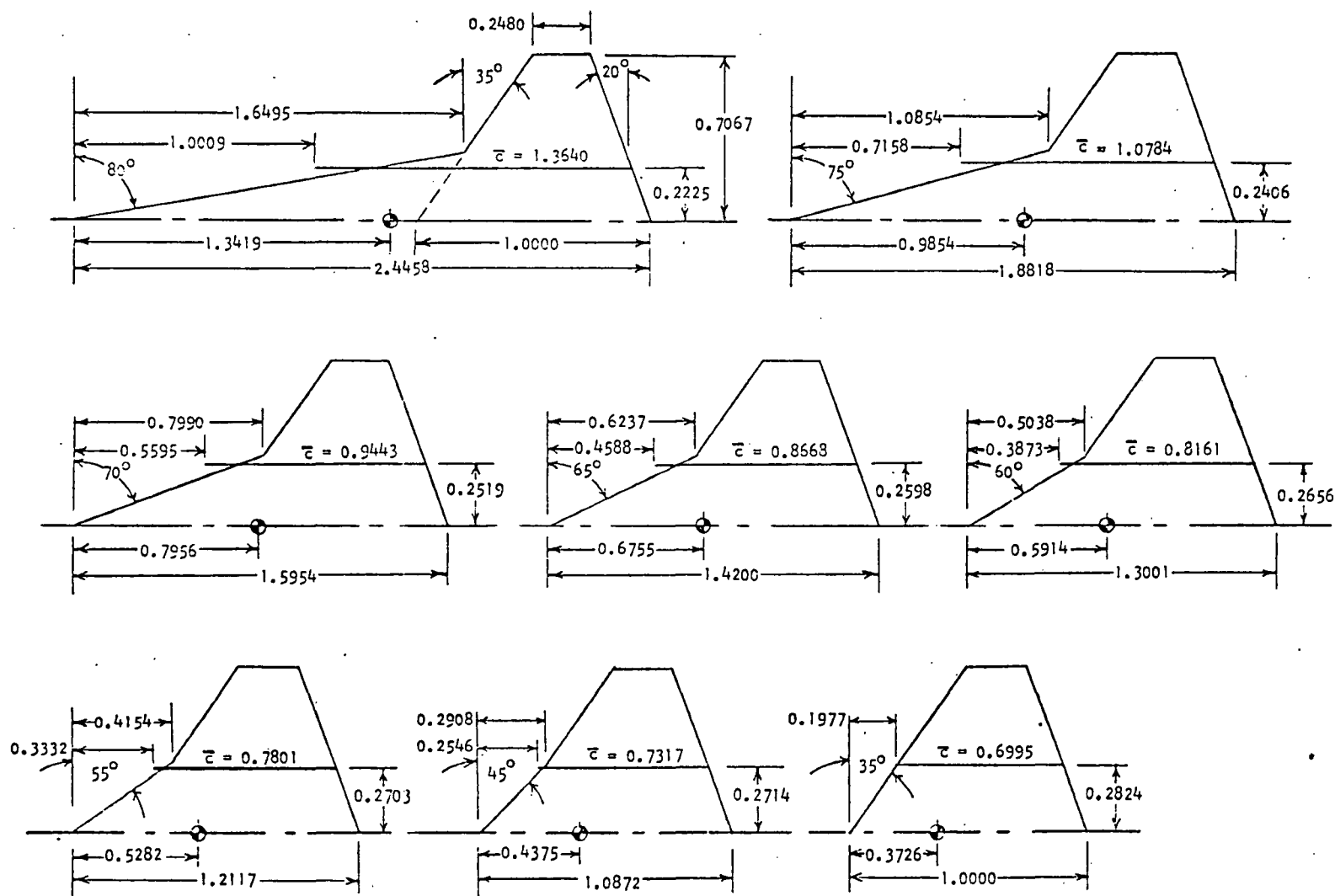
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All linear dimensions are in terms of basic wing root chord.

(a) Wing I; LE = 25°, TE = 25°

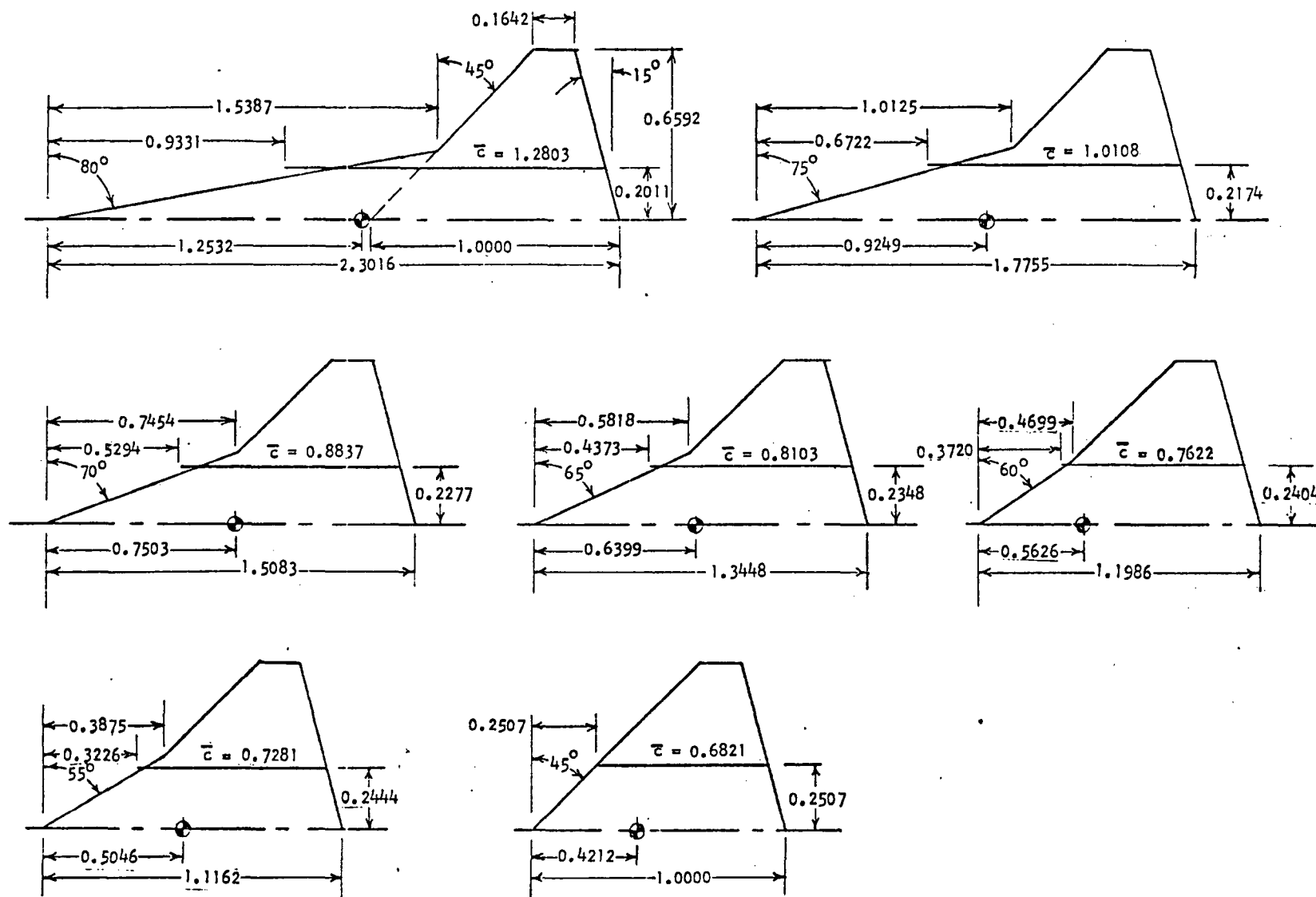
Figure 1. - Sketch of models used in investigation.



All linear dimensions are in terms of basic wing root chord.

(b) Wing II; LE = 35° , TE = 20°

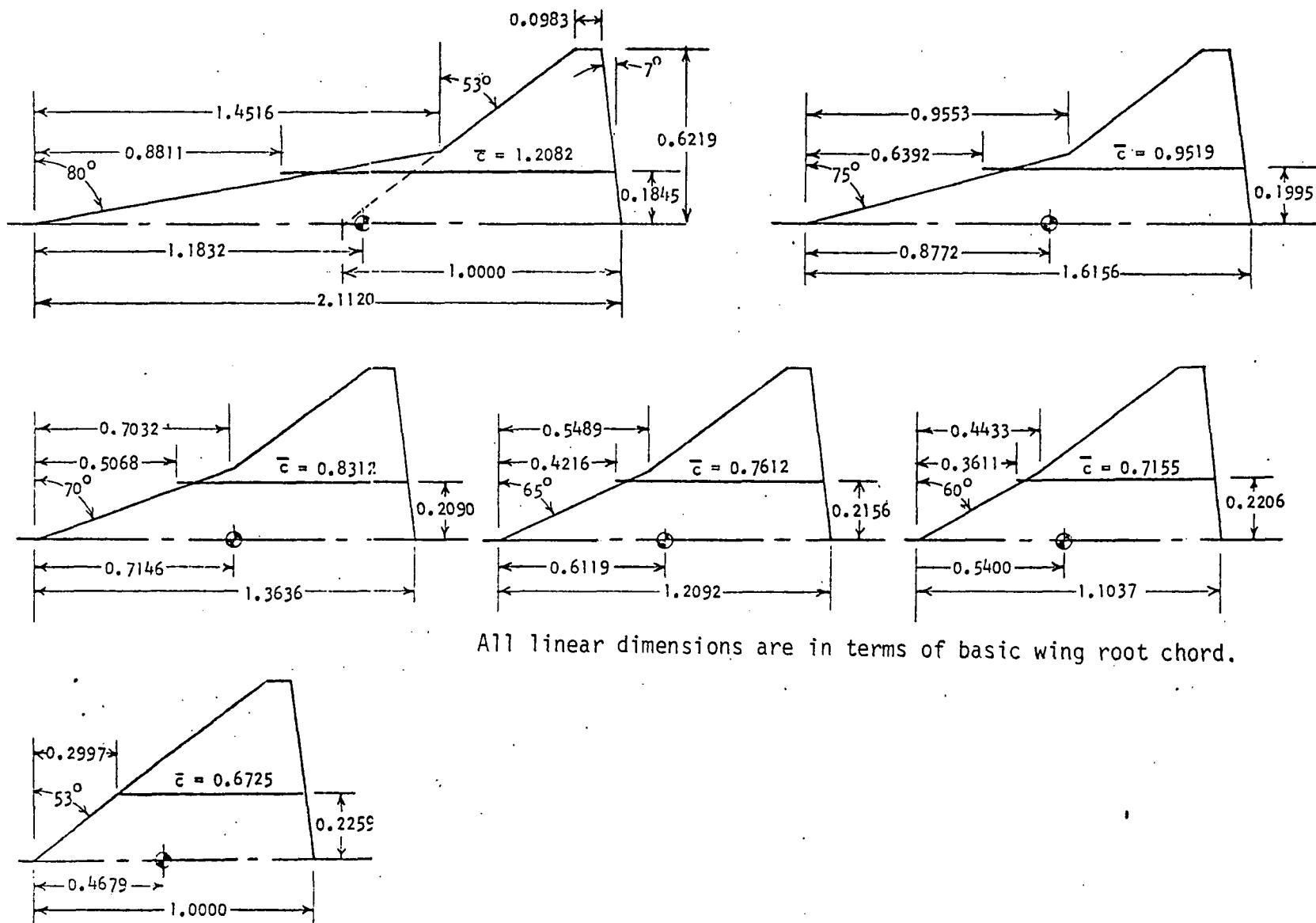
Figure 1. - Continued.



All linear dimensions are in terms of basic wing root chord.

(c) Wing III; LE = 45° , TE = 15°

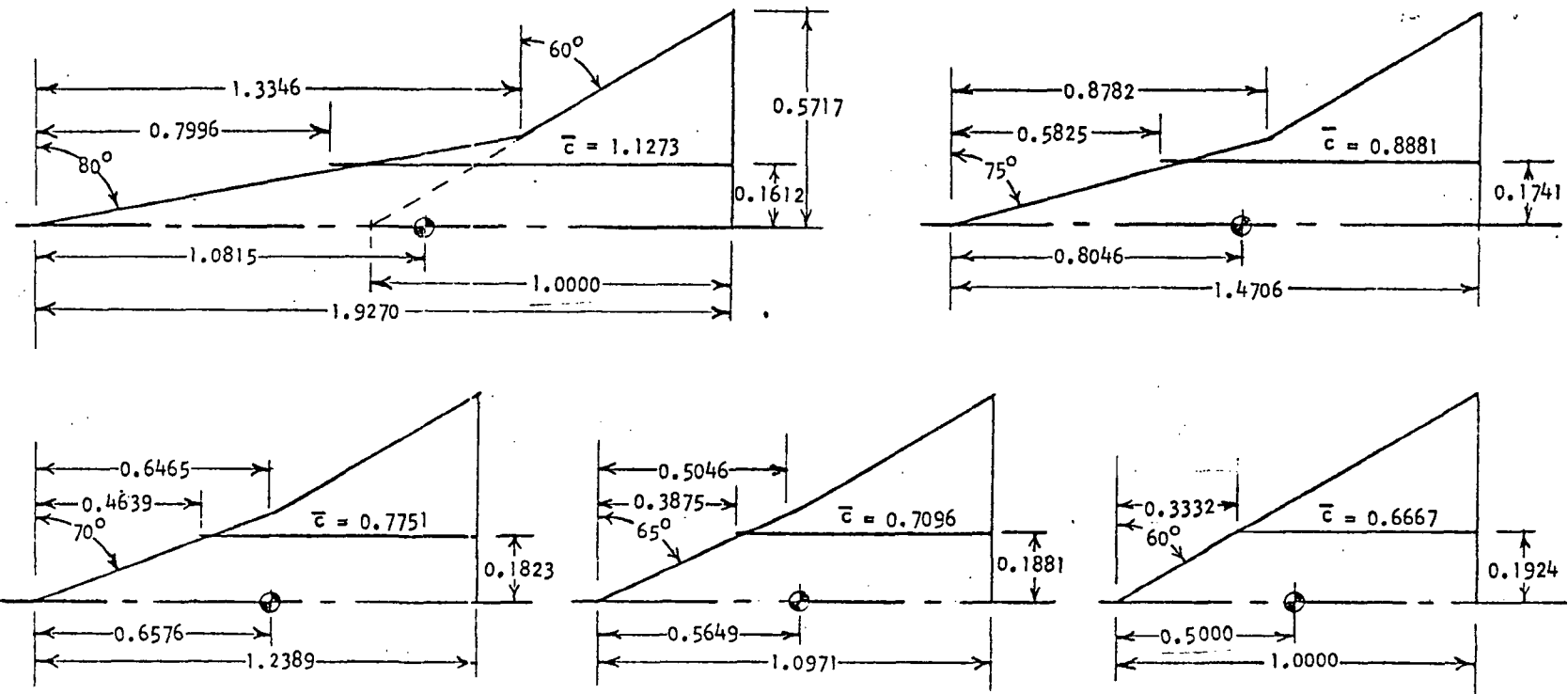
Figure 1. - Continued.



All linear dimensions are in terms of basic wing root chord.

(d) Wing IV; LE = 53° , TE = 7°

Figure 1. - Continued.



All linear dimensions are in terms of basic wing root chord.

(e) Wing V; LE = 60° , TE = 0°

Figure 1. - Concluded.

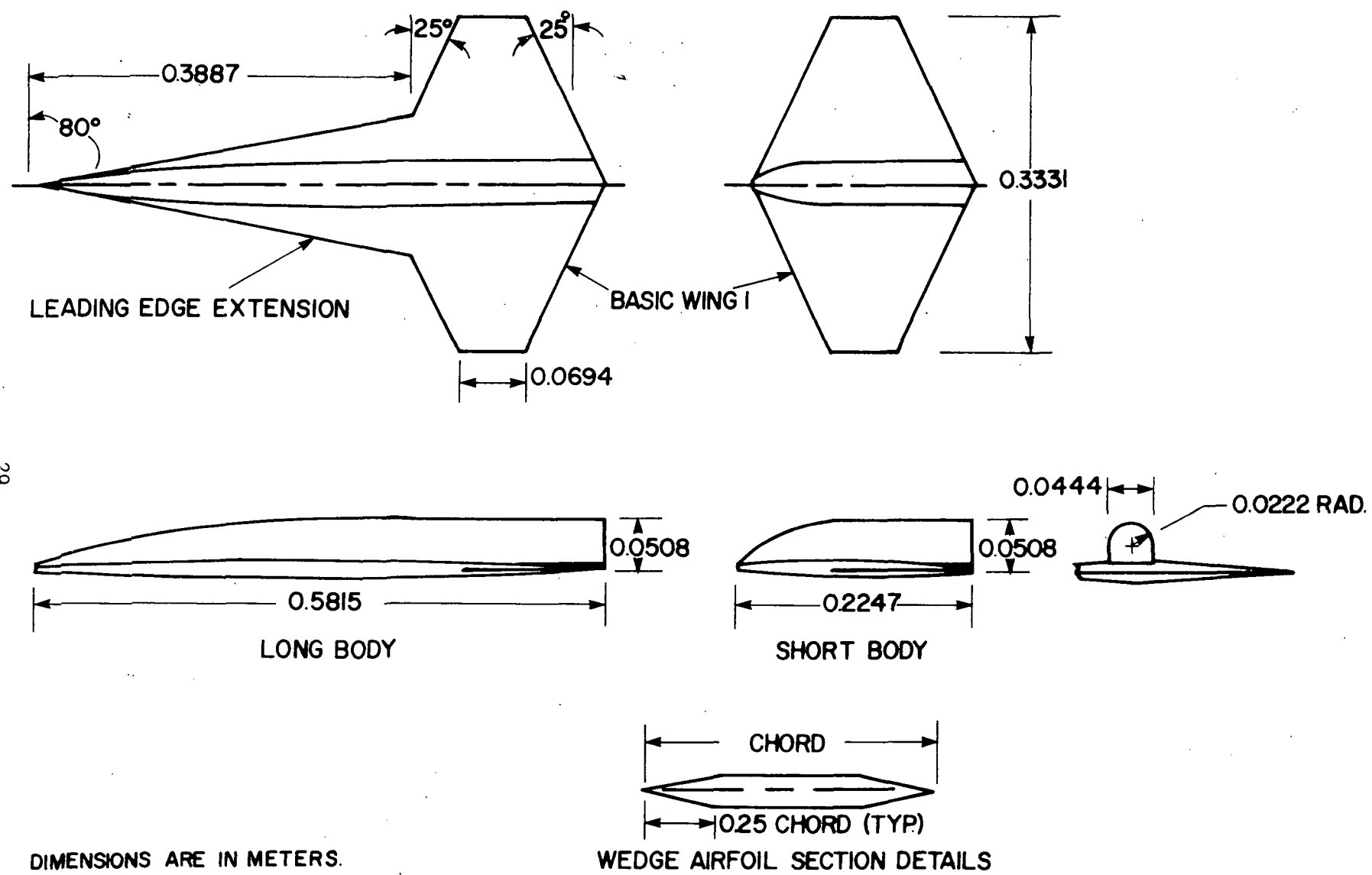


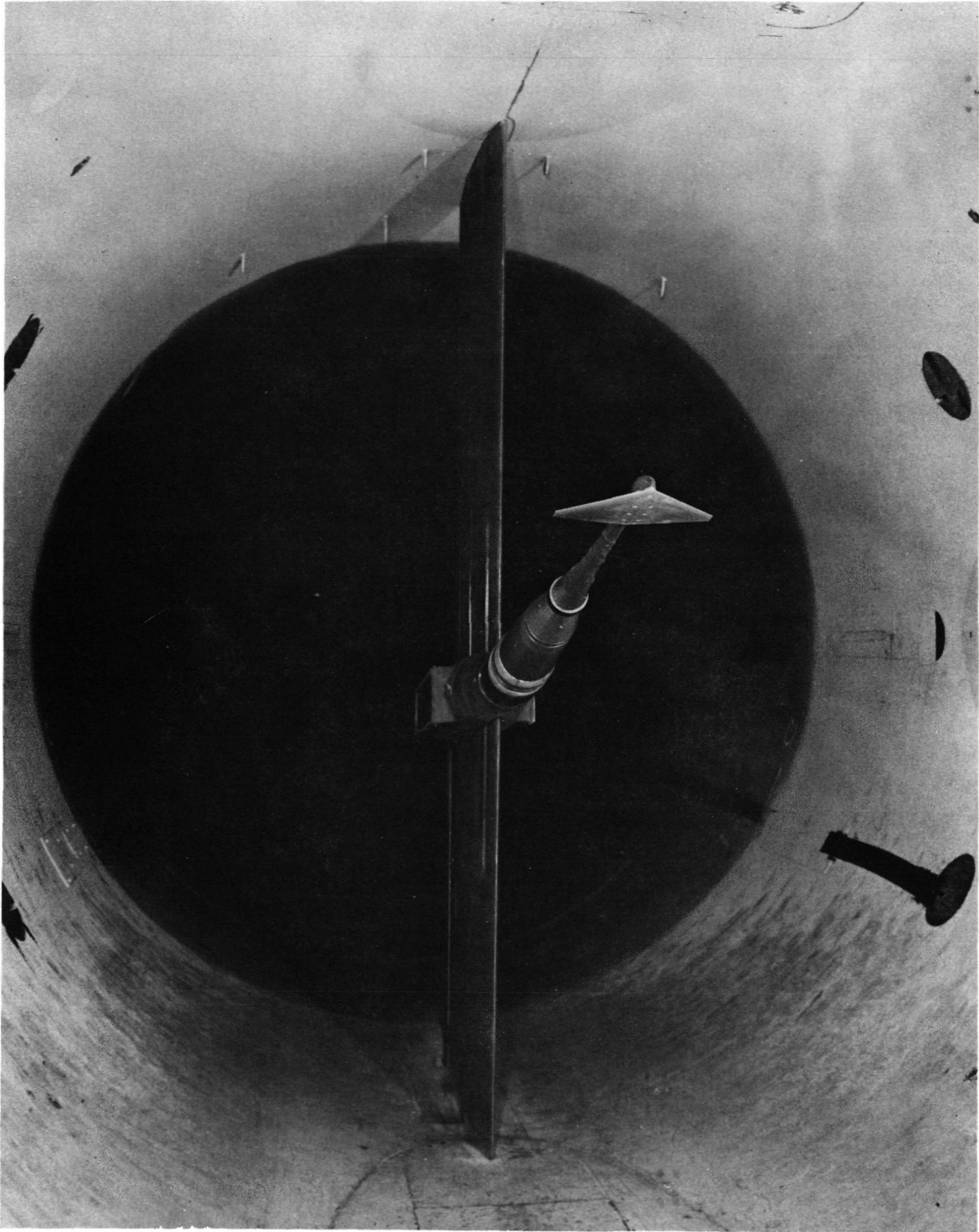
Figure 2. - Sketch showing general arrangement of model used in investigation.

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(a) Looking upstream.

Figure 3. - Typical model support in the Ames 12-Foot Pressure Wind Tunnel.



(b) Looking downstream

Figure 3. - Concluded.

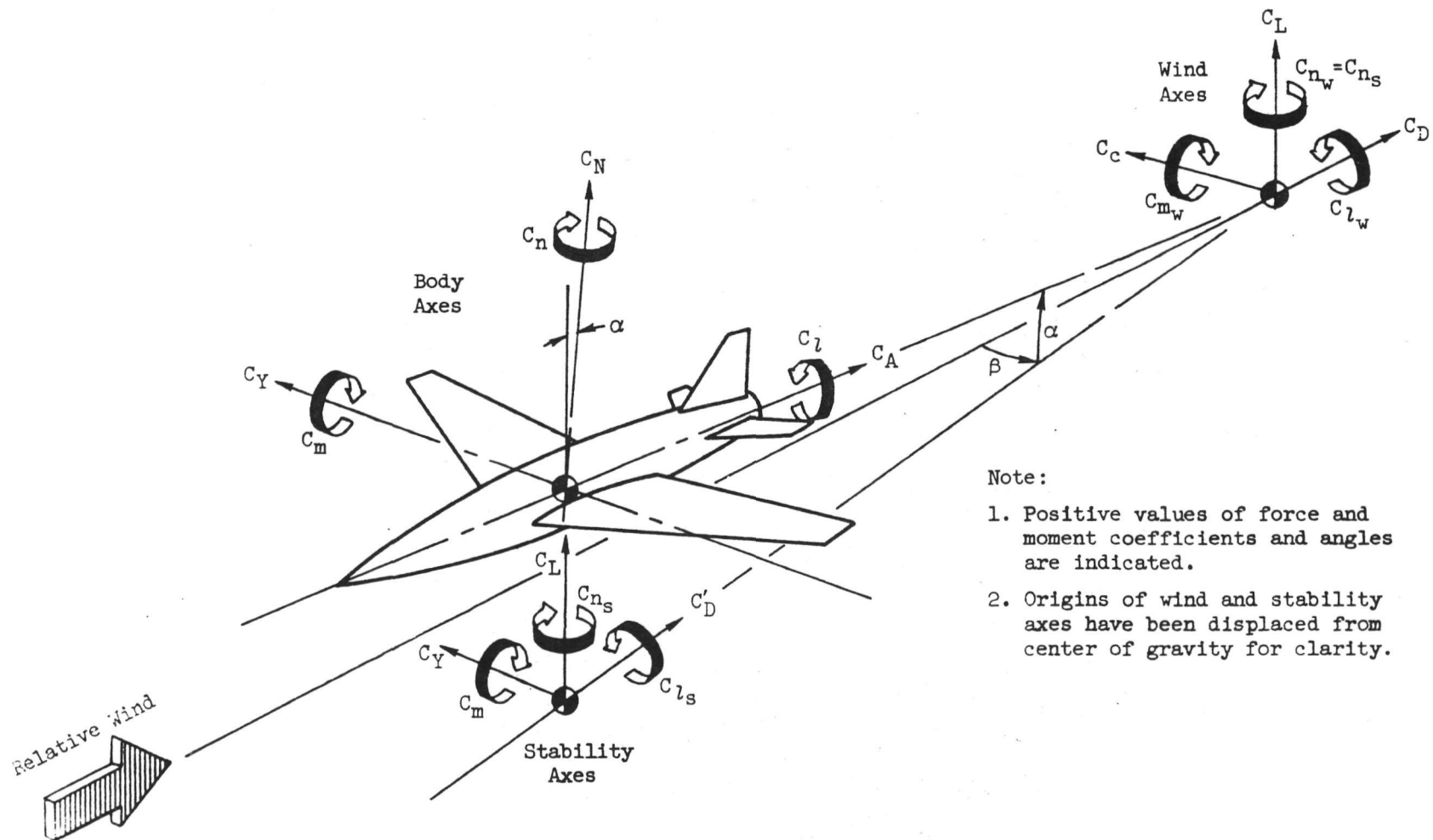


Figure 4. - Orientation of force and moment coefficients about body, wind, and stability axes.

DATA FIGURES

(JNC001) WING I 25-25-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES		
○	6.467	FILSWP	.080	LESWP	25.000
□	13.081	BETA	25.000	TESWP	25.000
◇	19.256	GRITNO	.000	MACH	.300
△	26.008		120.000		

REFERENCE INFORMATION

SREF	.0490	SQ. M.
LREF	.1591	METERS
BREF	.3331	METERS
XMRP	.0722	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

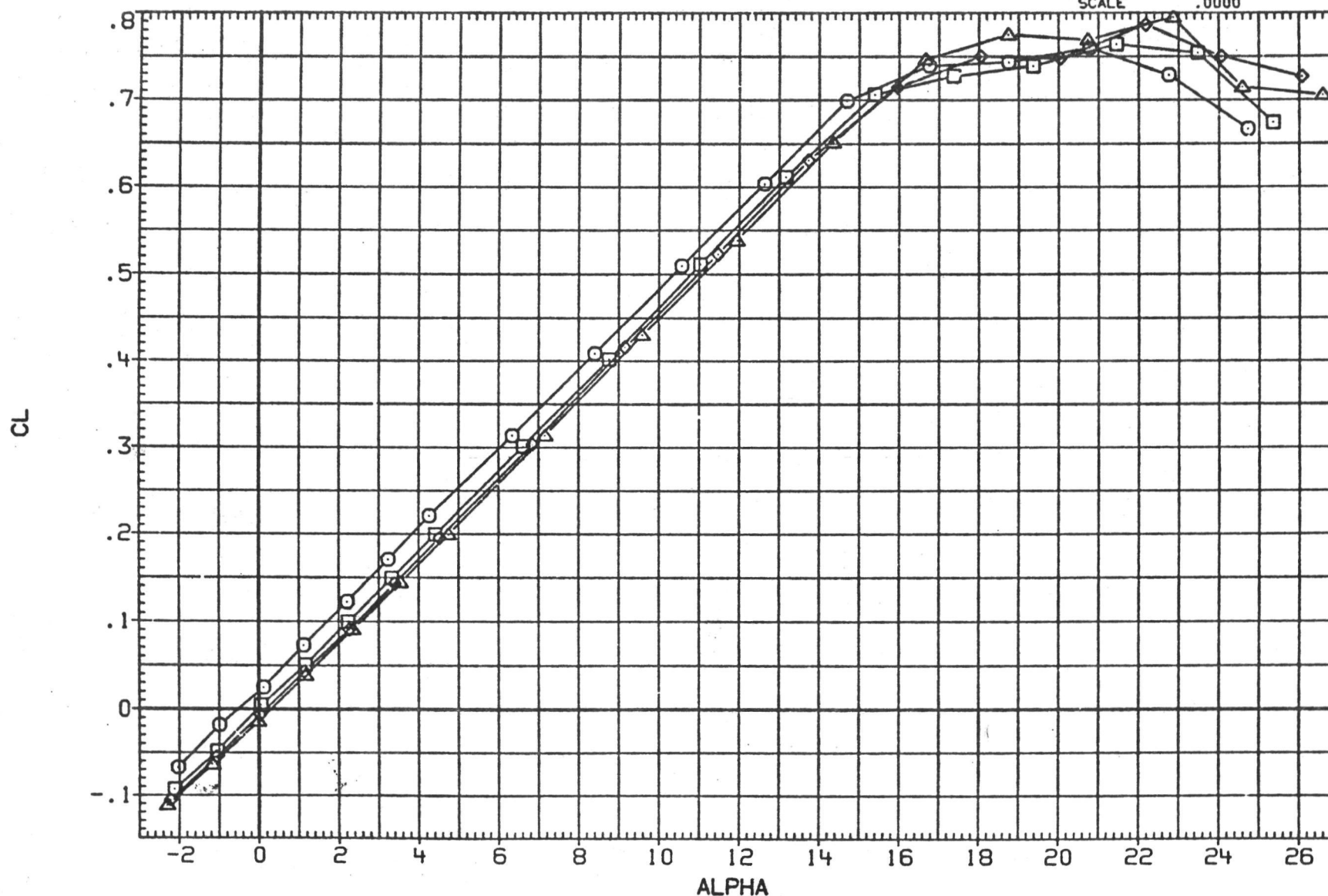


FIGURE 5. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 125
(LEADING EDGE EXTENSION OFF)

(JNC001) WING I 25-25-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 6.467 .080 LESWP 25.000
 □ 13.081 FILSWP 25.000 TESWP 25.000
 ◇ 19.256 BETA .000 MACH .300
 △ 26.008 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0490 SQ. M.
 LREF .1591 METERS
 BREF .3331 METERS
 XMRP .0722 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

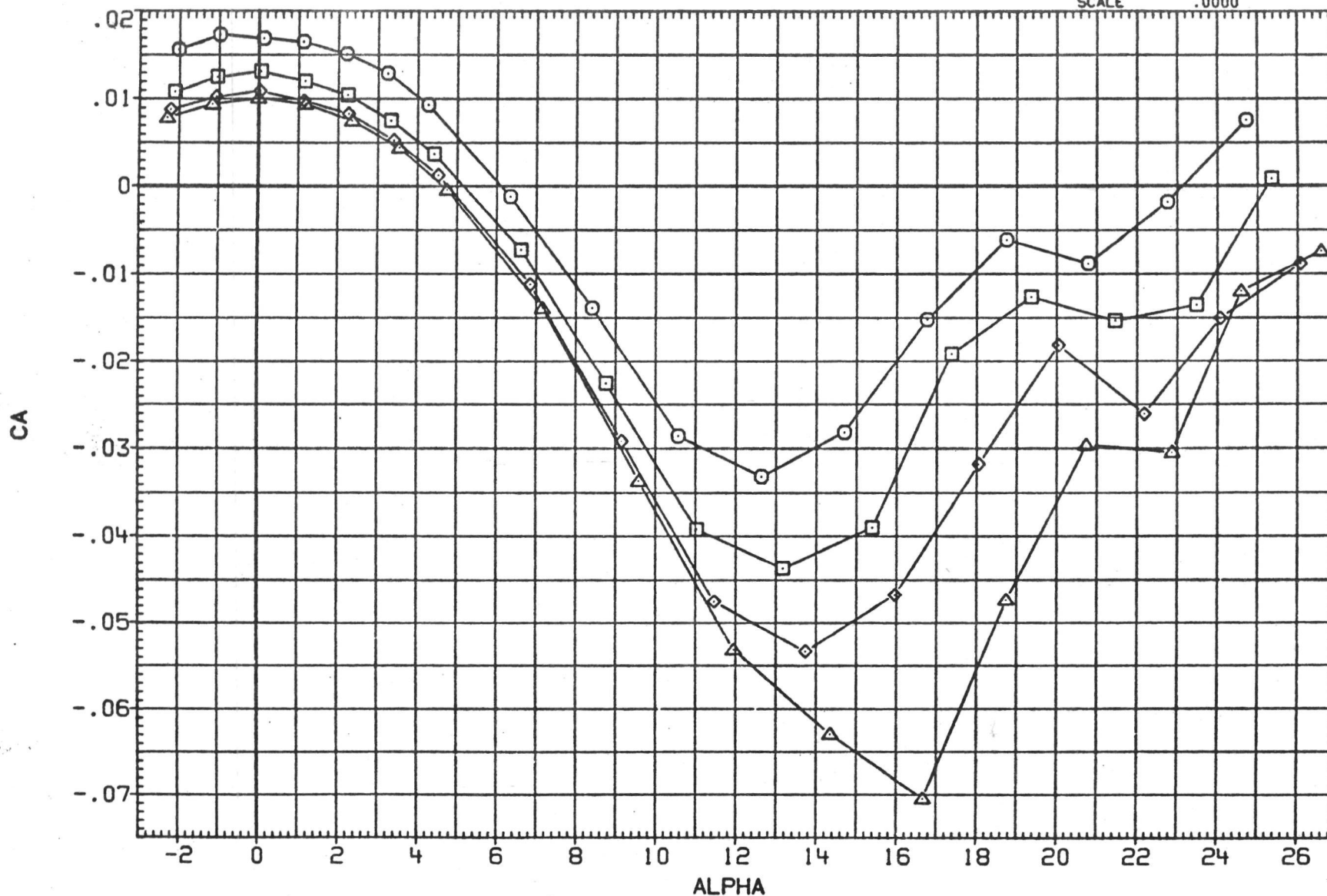


FIGURE 5. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 125
 (LEADING EDGE EXTENSION OFF)

(JNC001) WING I 25-25-0008 AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES	LESWP	25.000
○	6.467	FILSWP	.080	25.000	25.000
□	13.081	BETA	.000	MACH	.300
◇	19.256	GRITNO	120.000		
△	26.008				

REFERENCE INFORMATION

SREF	.0490	SQ. M.
LREF	.1591	METERS
BREF	.3331	METERS
XMRP	.0722	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

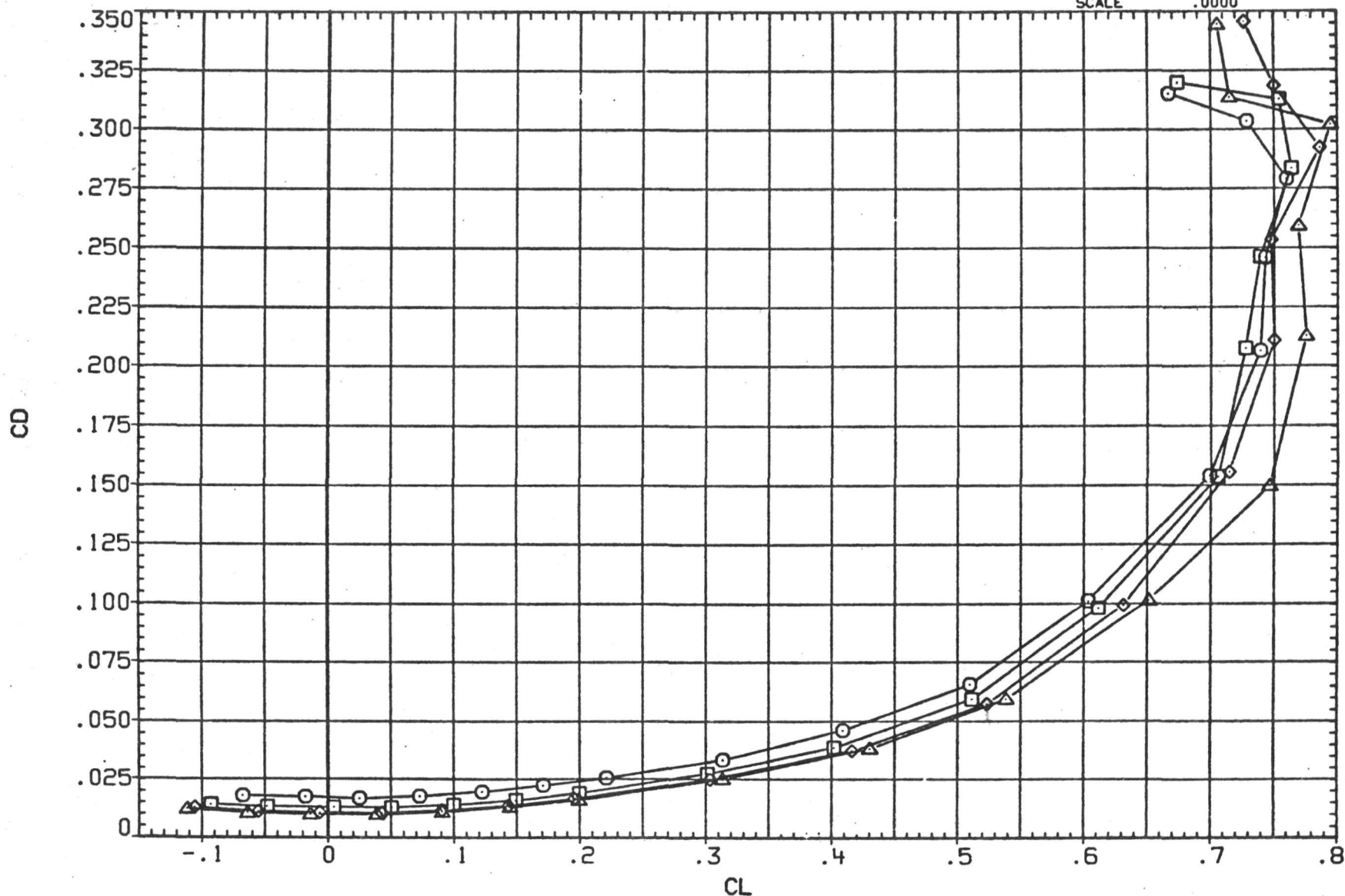


FIGURE 5. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 125 (LEADING EDGE EXTENSION OFF)

(JNC001)

WING I

25-25-0008

AMES 12-086 (LA65)

REFERENCE INFORMATION

SYMBOL

RN/M

PARAMETRIC VALUES

○

6.467

T/C

.080

LESWP

25.000

□

13.081

FILSWP

25.000

TESWP

25.000

◇

19.256

BETA

.000

MACH

.300

△

26.008

GRITNO

120.000

SREF .0490
 LREF .1591
 BREF .3331
 XMRP .0722
 YMRP .0000
 ZMRP .0000
 SCALE .0000

SO. M.
 METERS
 METERS
 M. XB
 M. YB
 M. ZB

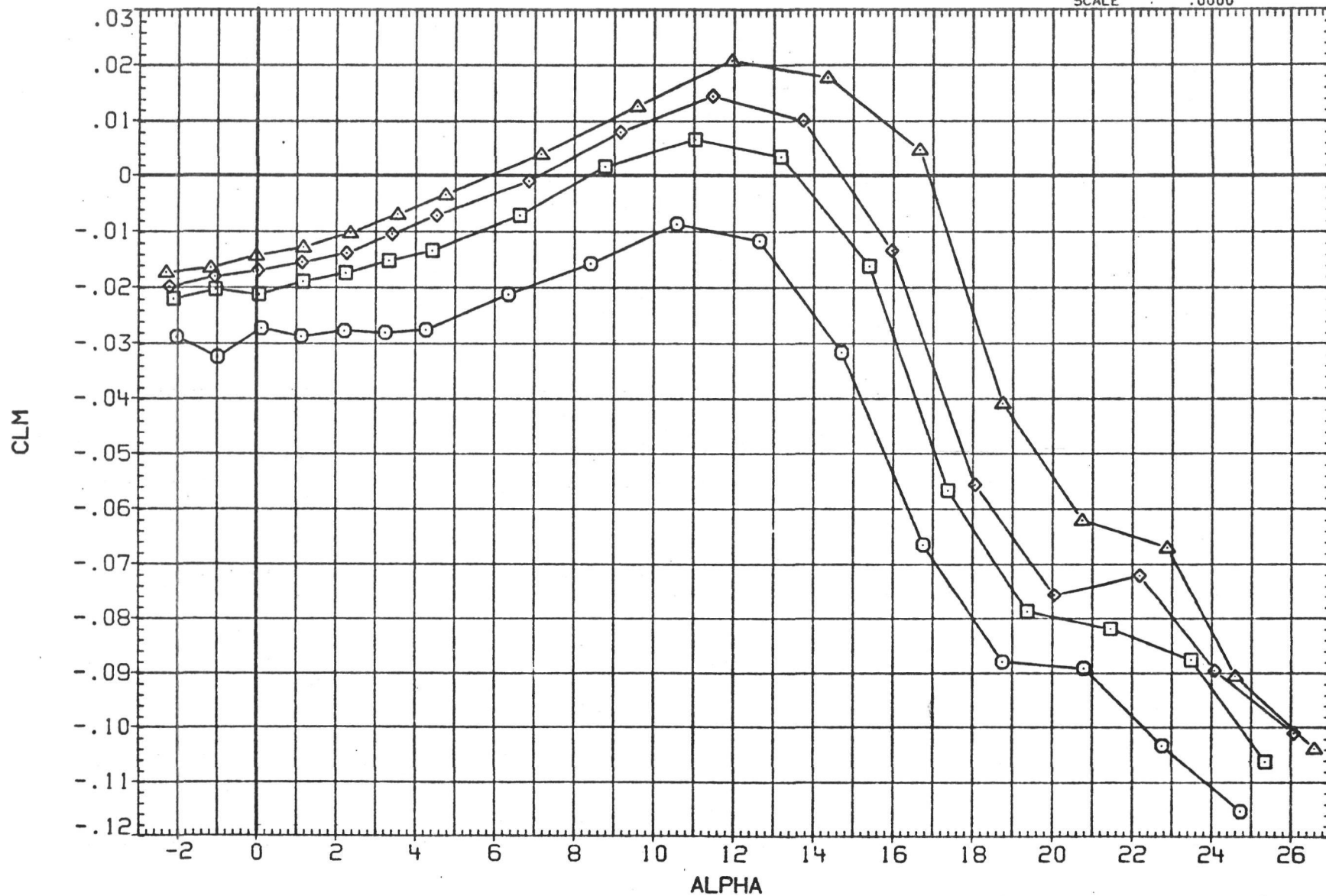


FIGURE 5. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 125
 (LEADING EDGE EXTENSION OFF)

(JNC001)

WING I

25-25-0008

AMES 12-086 (LA65)

REFERENCE INFORMATION

SYMBOL	RN/M
○	6.467
◇	13.081
□	19.256
△	25.008

PARAMETRIC VALUES	
T/C	.080
FILSWP	25.000
BETA	.000
GRITNO	120.000
LESWP	25.000
TESWP	25.000
MACH	.300

SREF	.0490	SQ. M.
LREF	.1591	METERS
BREF	.3331	METERS
XMRP	.0722	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

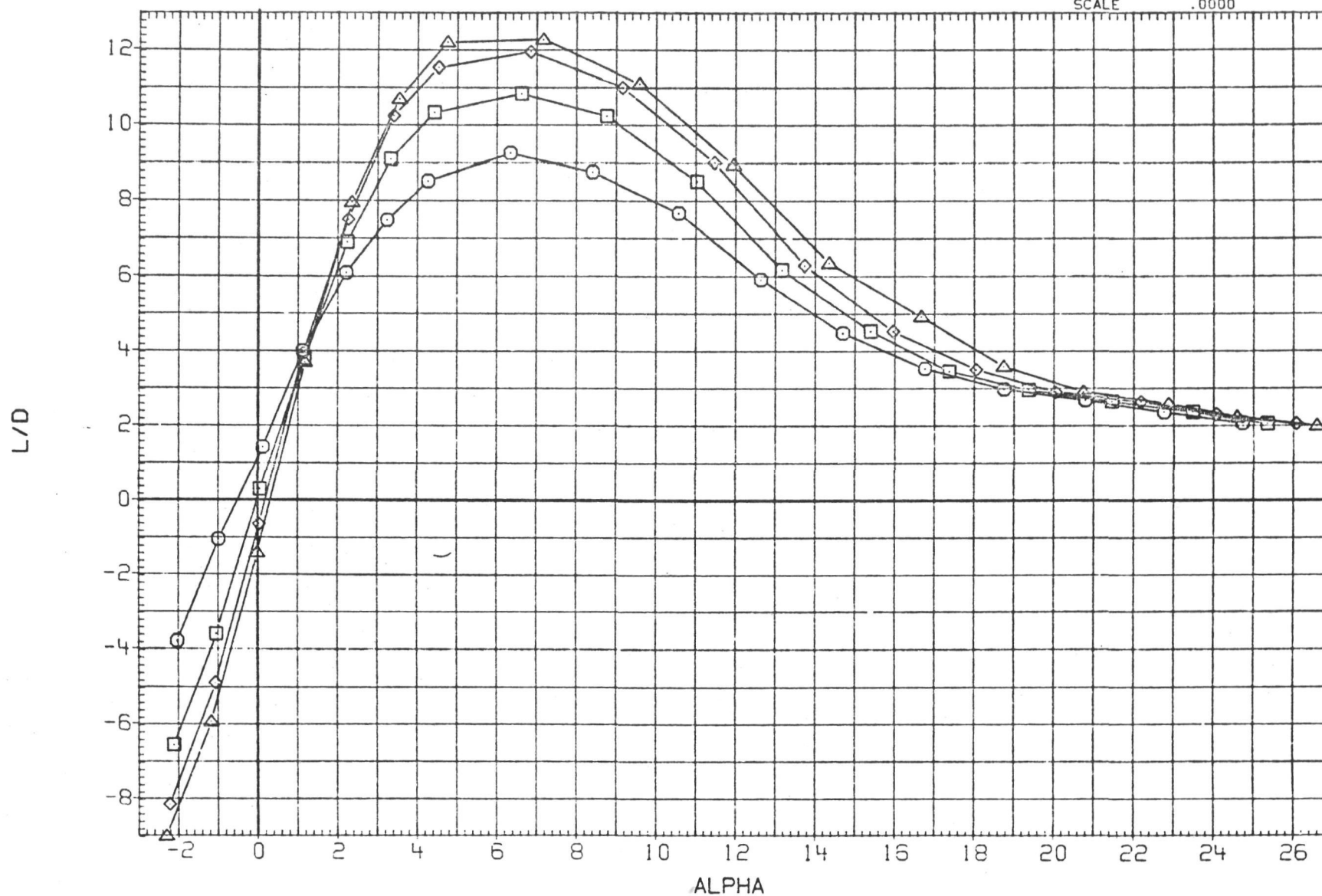


FIGURE 5. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 125
(LEADING EDGE EXTENSION OFF)

(JNC002)

WING I

25-80-0008

AMES 12-086 (LA65)

SYMBOL

RN/M

T/C

PARAMETRIC VALUES

LESWP

25.000

TESWP

25.000

MACH

.300

REFERENCE INFORMATION

SREF .0734

SQ. M.

LREF .3220

METERS

BREF .3331

METERS

XMRP .3152

M. XB

YMRP .0000

M. YB

ZMRP .0000

M. ZB

SCALE .0000

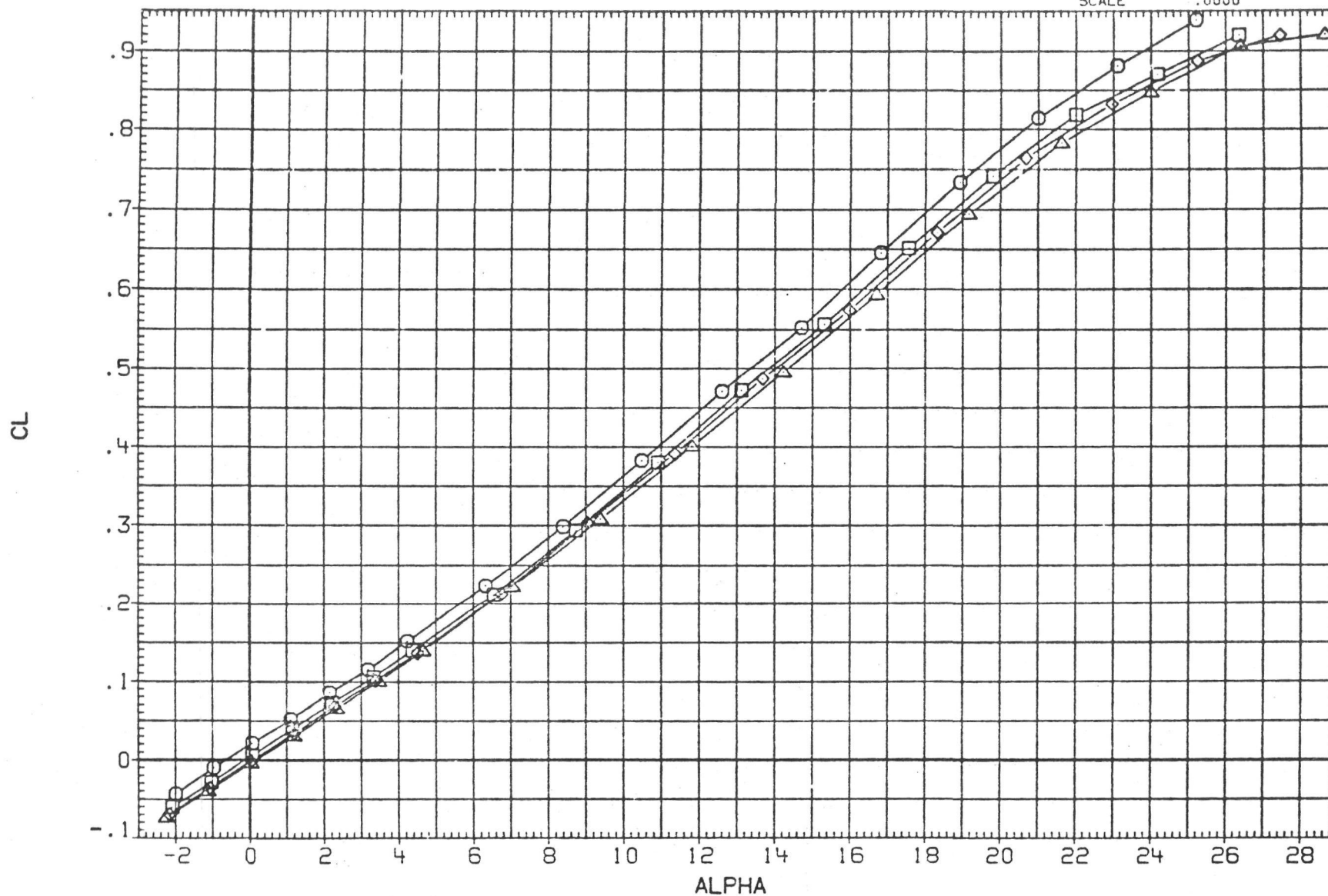


FIGURE 6. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 180

(JNC002) WING I 25-80-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 6.293 LESWP 25.000
 □ 13.173 FILSWP 80.000 TESWP 25.000
 ◇ 19.597 BETA .000 MACH .300
 △ 25.976 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0734 SQ. M.
 LREF .3220 METERS
 BREF .3331 METERS
 XMRP .3152 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0006

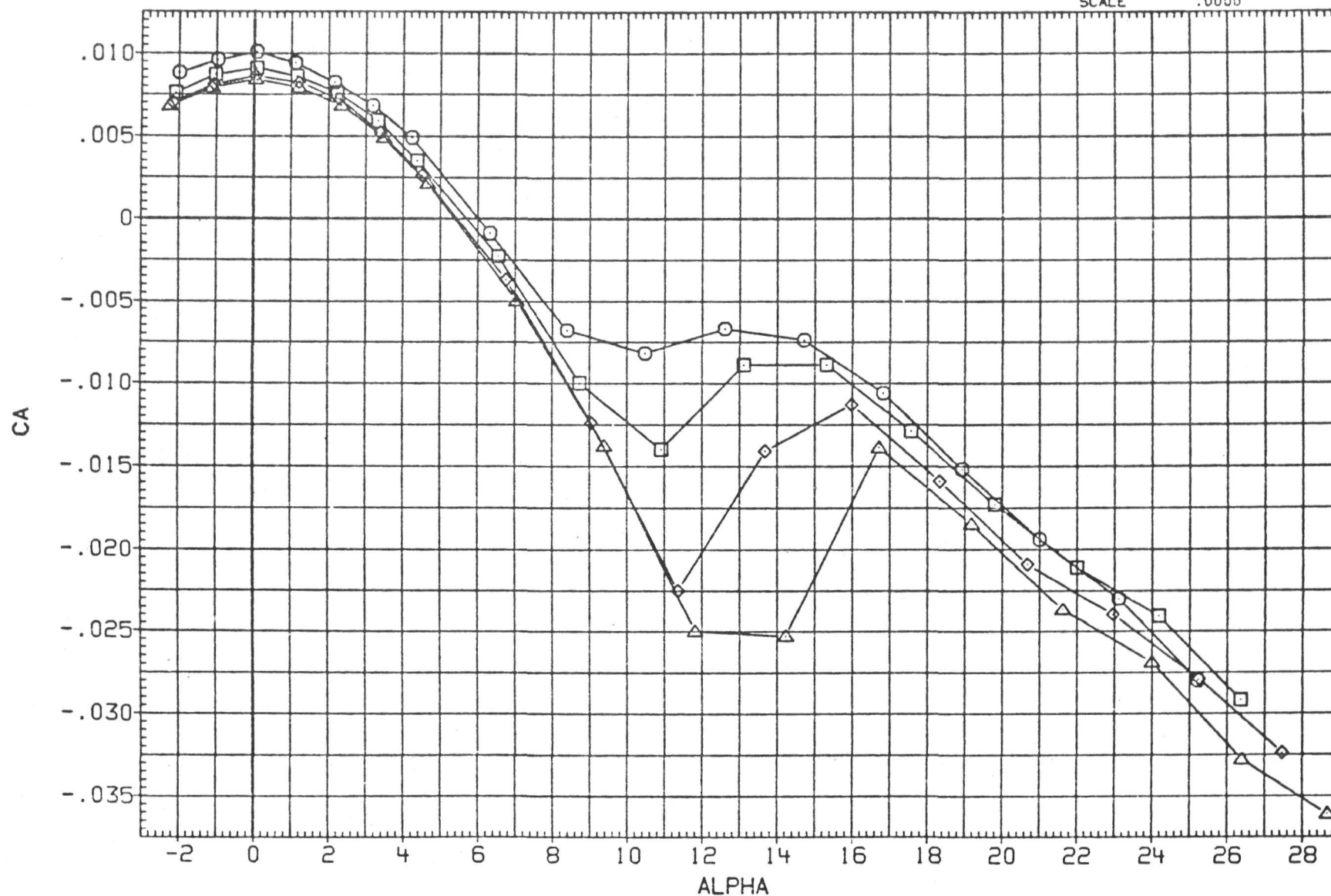


FIGURE 6. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 180

SYMBOL

RN/M

PARAMETRIC VALUES

REFERENCE INFORMATION

SREF	.0734	SQ. M.
LREF	.3220	METERS
BREF	.3331	METERS
XMRP	.3152	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

○	6.293	T/C	.080	LESHP	25.000
□	13.173	FILSWP	80.000	TESHP	25.000
◇	19.597	BETA	.000	MACH	.300
△	25.976	GRITNO	120.000		

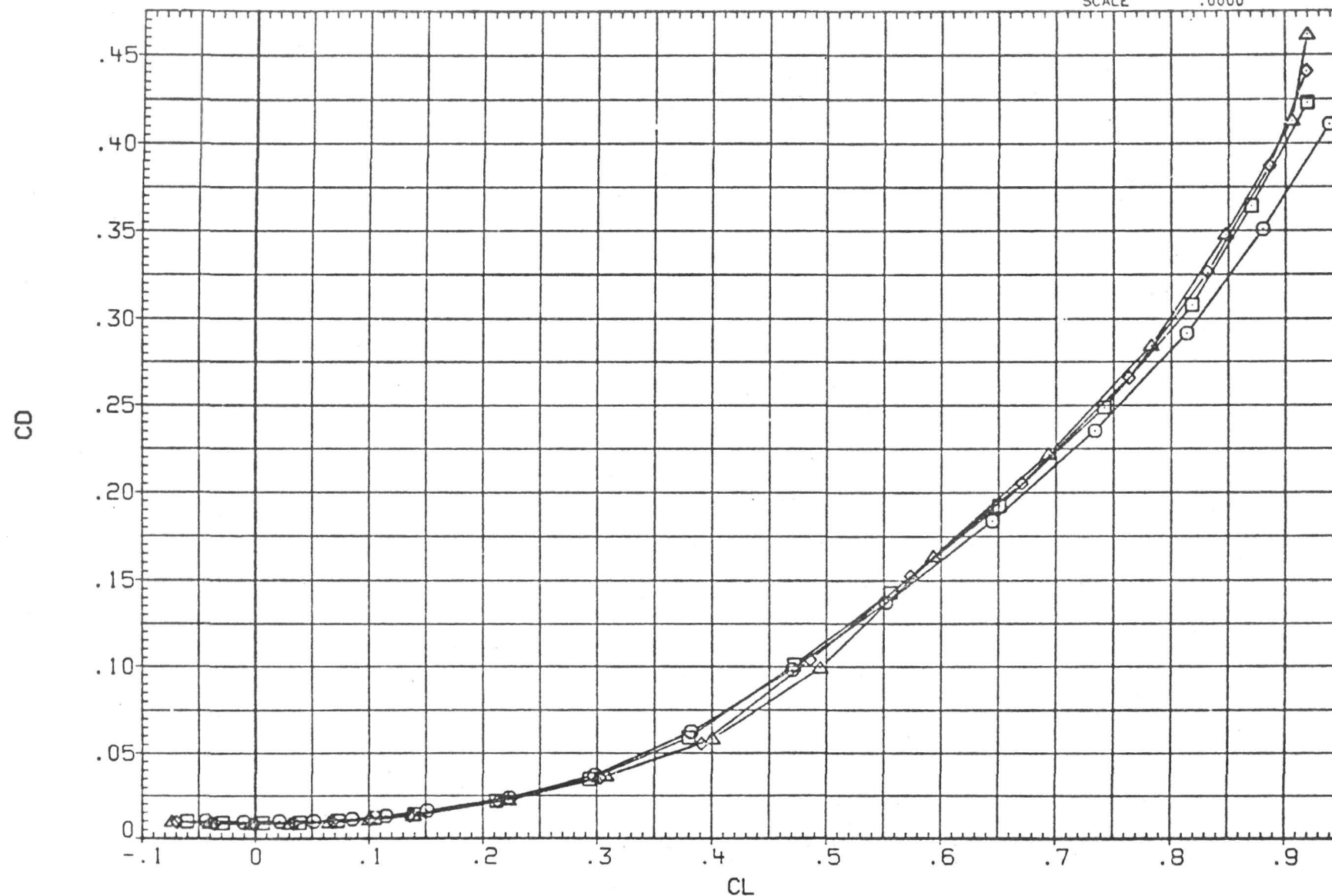


FIGURE 6. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 180

(JNC002) WING I 25-80-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES
○	6.293	T/C .080 LESWP 25.000
□	13.173	FILSWP 80.000 TESWP 25.000
◇	19.597	BETA .000 MACH .300
△	25.976	GRITNO 120.000

REFERENCE INFORMATION

SREF	.0734	SQ. M.
LREF	.3220	METERS
BREF	.3331	METERS
XMRP	.3152	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

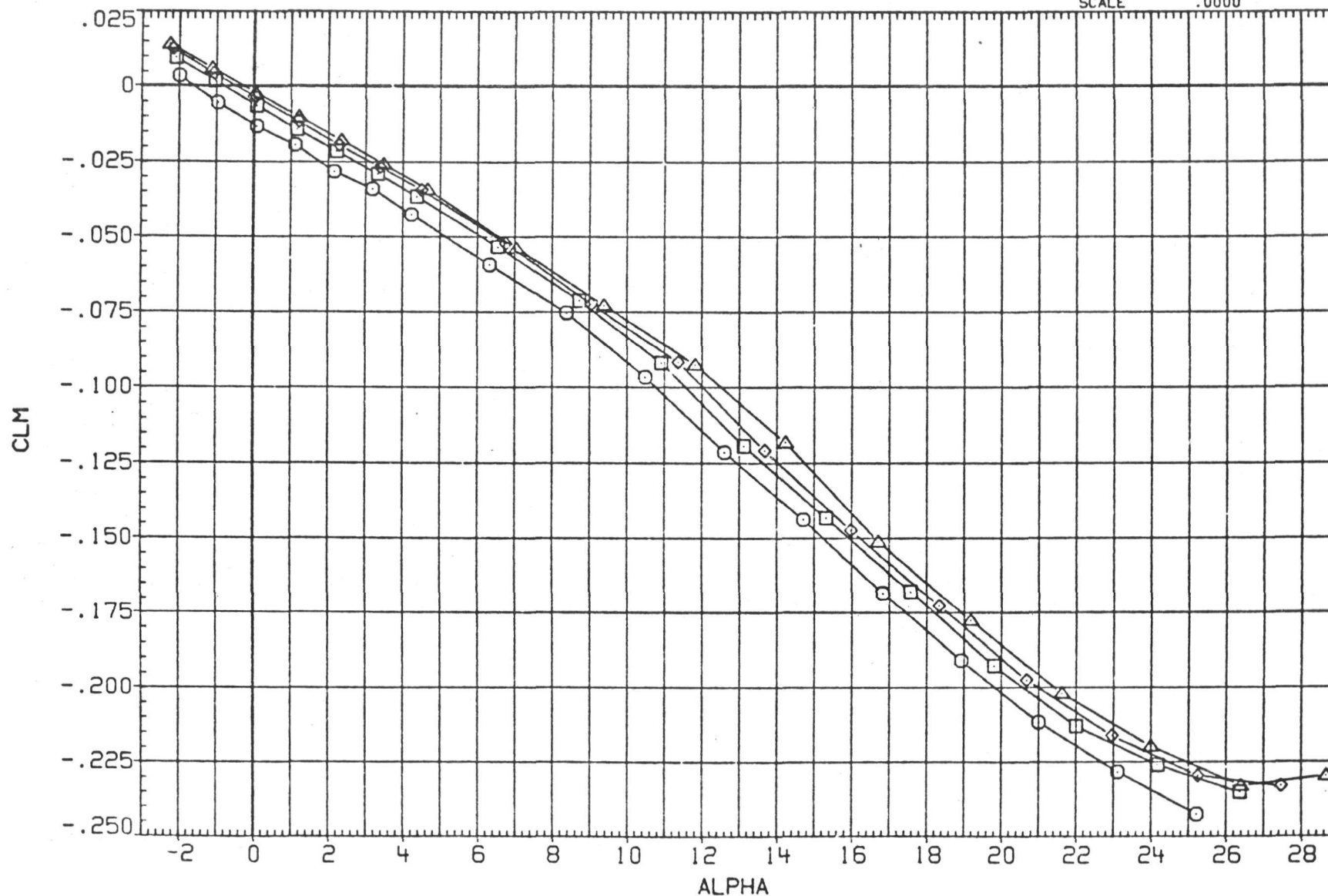


FIGURE 6. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 180

SYMBOL

RN/M

T/C

PARAMETRIC VALUES

.080

LESWP

25.000

80.000

TESWP

25.000

.000

MACH

.300

120.000

REFERENCE INFORMATION

SREF

.0734

SQ. M.

LREF

.3220

METERS

BREF

.3331

METERS

XMRP

.3152

M. XB

YMRP

.0000

M. YB

ZMRP

.0000

M. ZB

SCALE

.0000

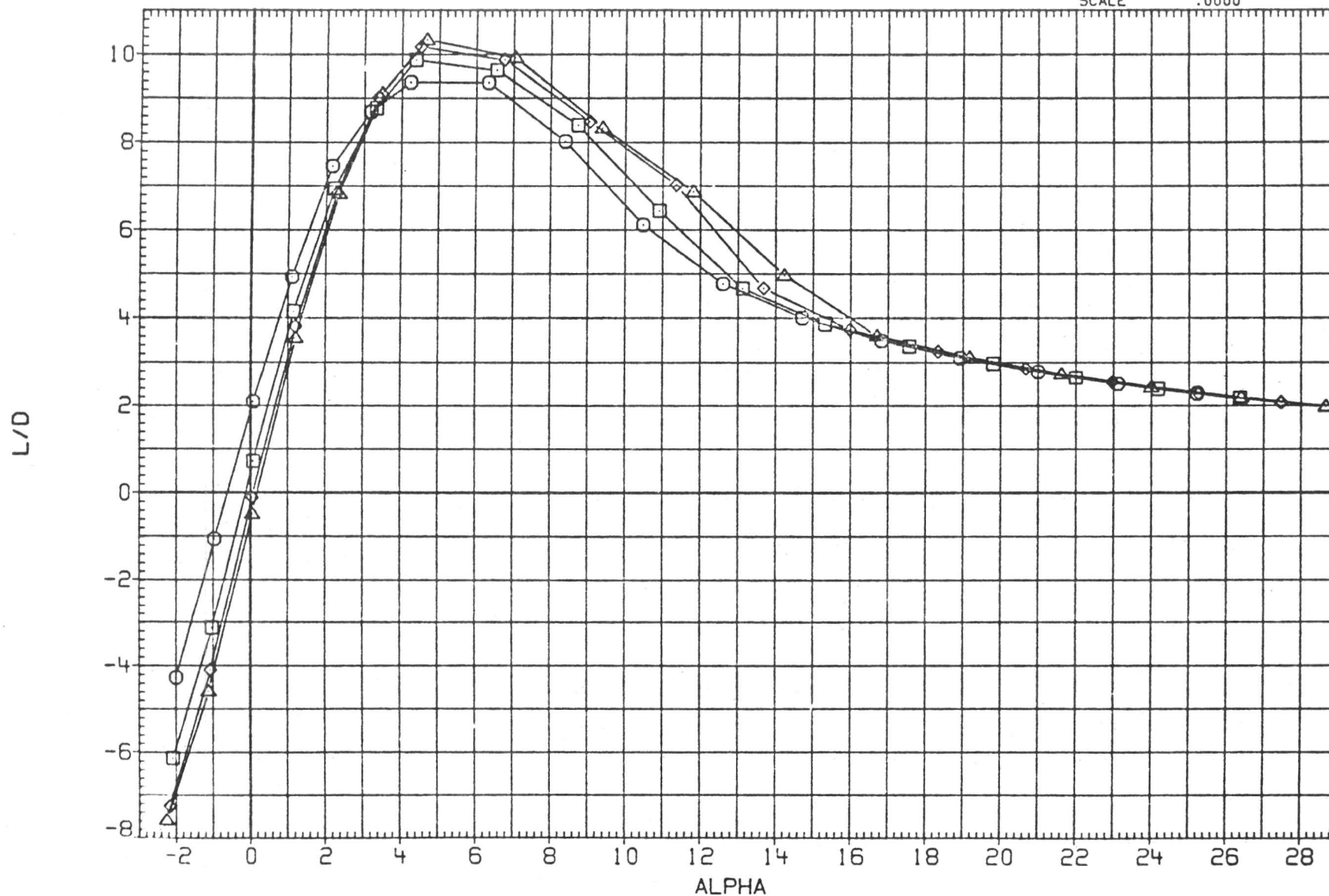


FIGURE 6. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 180

(JNC003) WING I 25-75-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 13.111 LESWP 25.000
 □ 19.699 FILSWP 75.000 TESWP 25.000
 ◇ 26.209 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0643 SQ. M.
 LREF .2550 METERS
 BREF .3331 METERS
 XMRP .2304 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

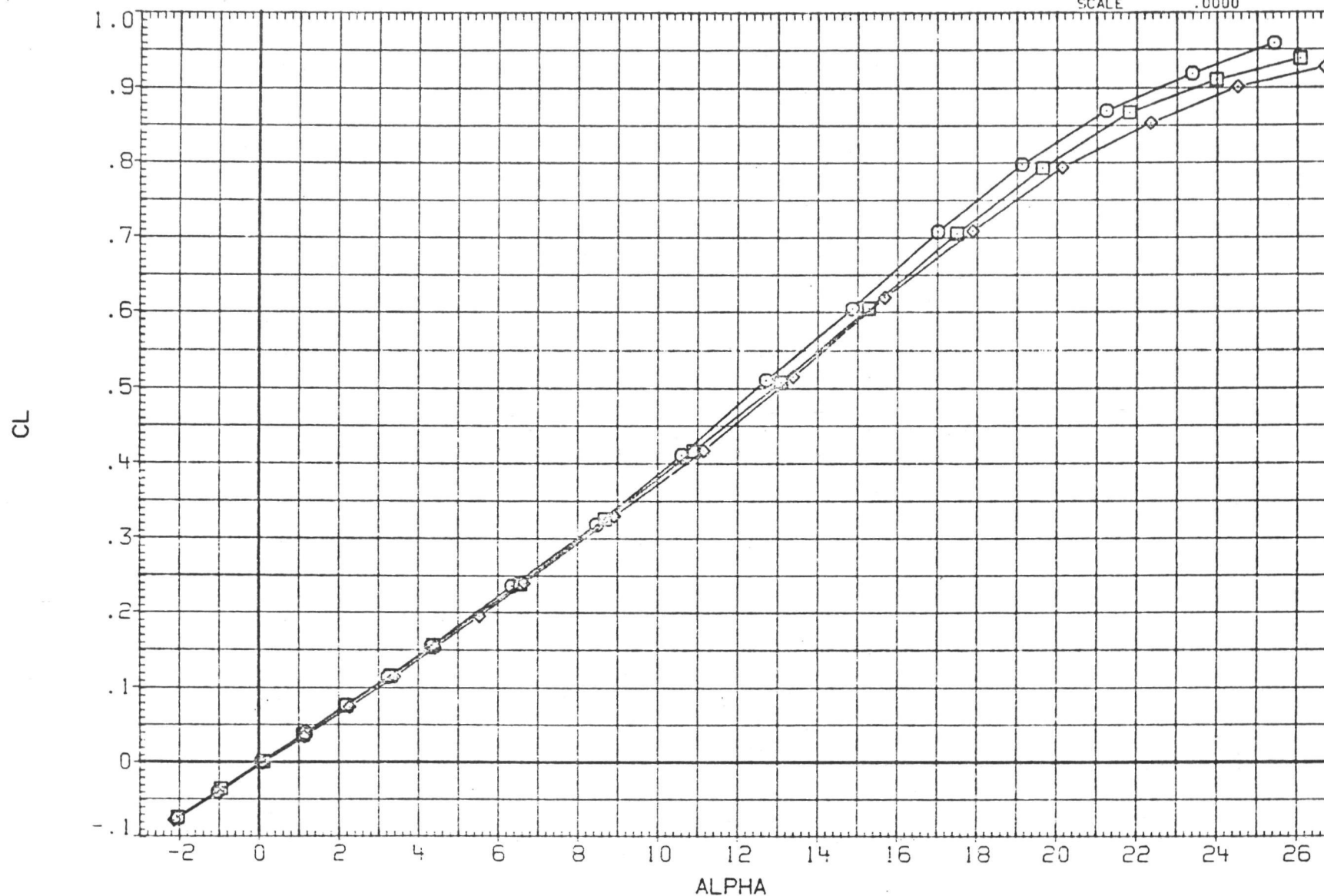


FIGURE 7. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 175

(JNC003) WING I 25-75-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 13.111 FILSWP .080 LESWP 25.000
 □ 19.699 BETA .000 TESWP 25.000
 ◇ 26.209 GRITNO 120.000 MACH .300

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0643 SQ. M.
 LREF .2550 METERS
 BREF .3331 METERS
 XMRP .2304 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

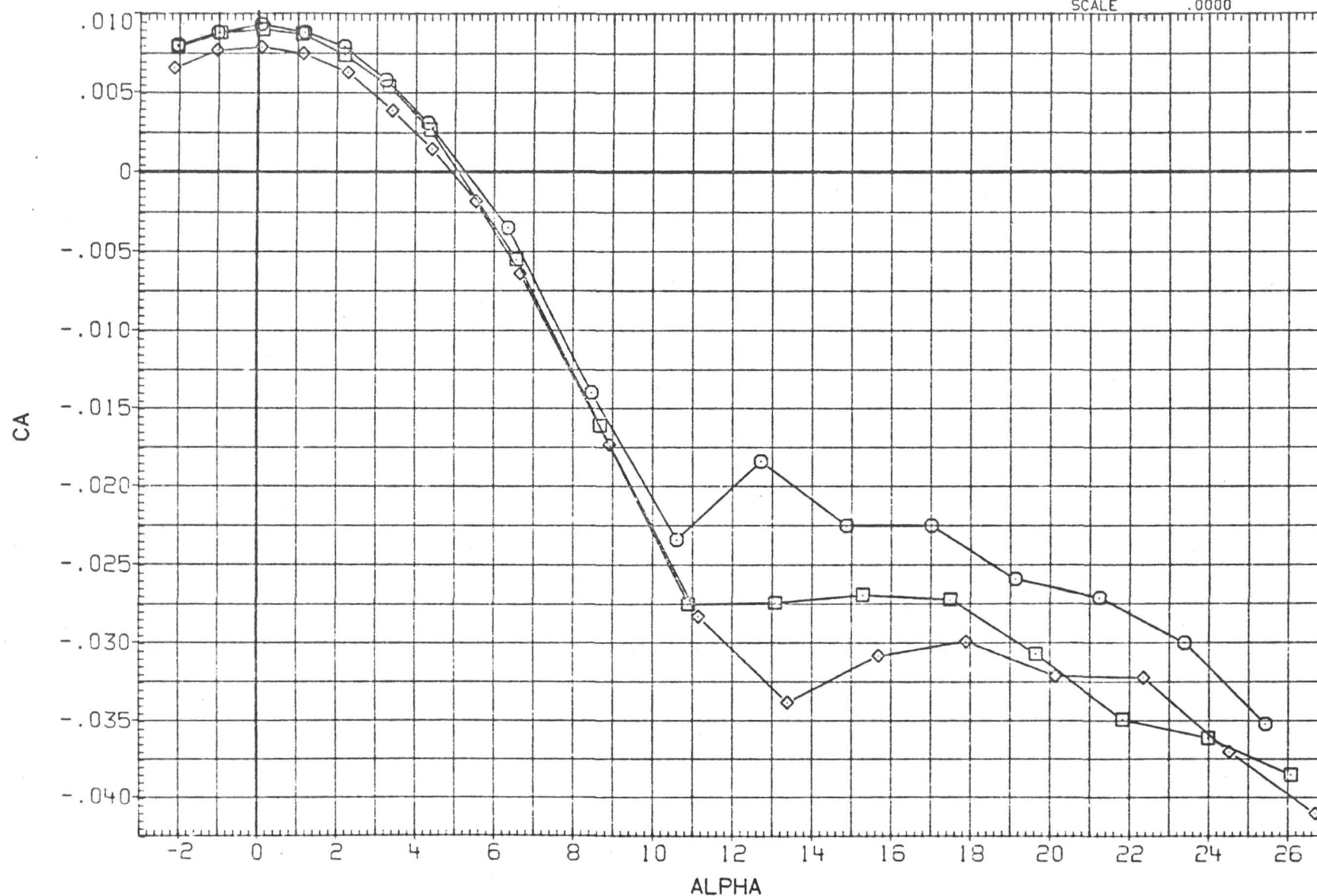


FIGURE 7. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 175

(JNC003) WING I 25-75-0008
 SYMBOL RN/M T/C FILSWP BETA GRITNO
 ○ 13.111 .080 LESWP 25.000
 □ 19.699 75.000 TESWP 25.000
 ◇ 26.209 .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0643 SQ. M.
 LREF .2550 METERS
 BREF .3331 METERS
 XMRP .2304 M. YB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

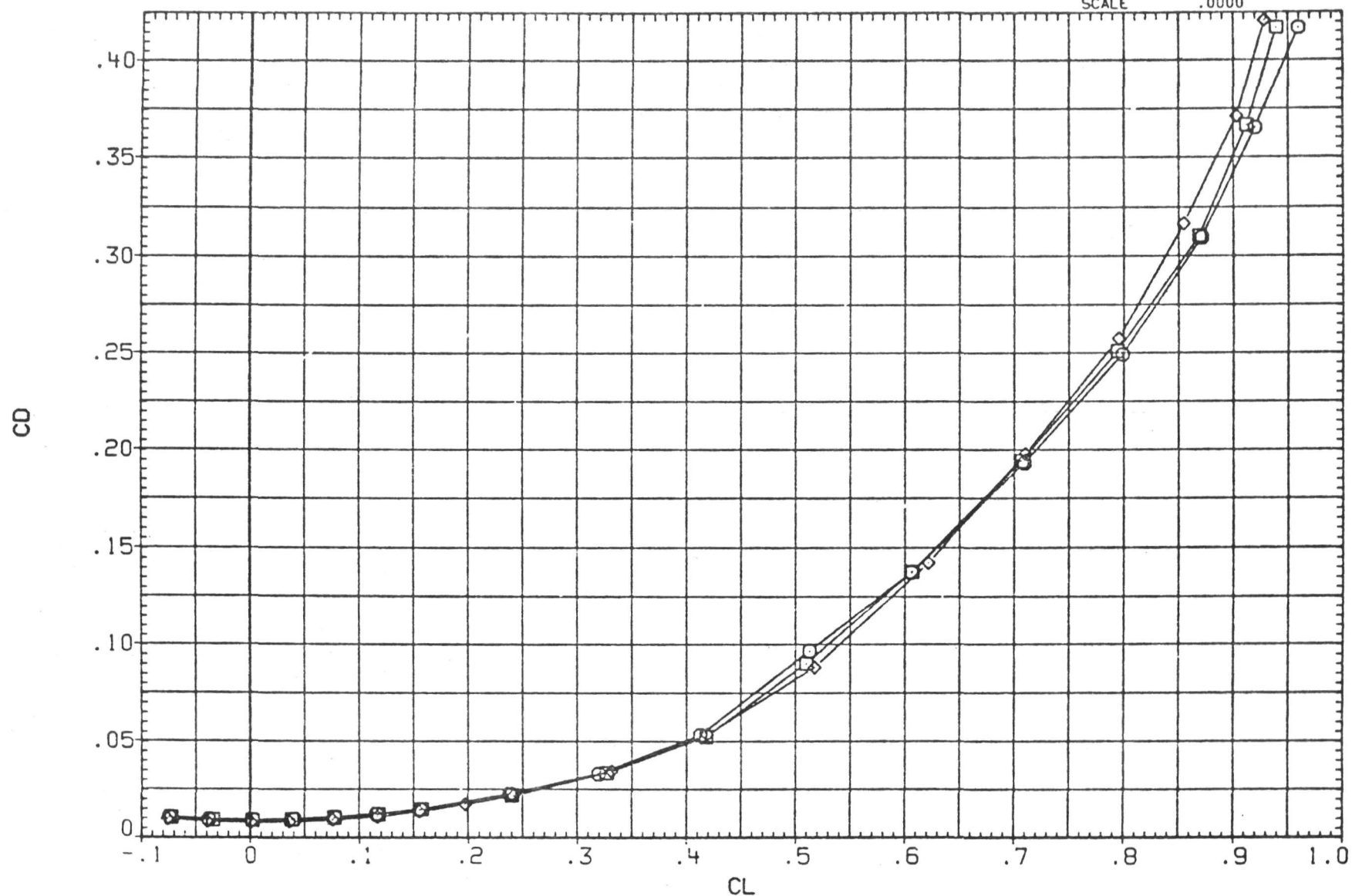


FIGURE 7. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 175

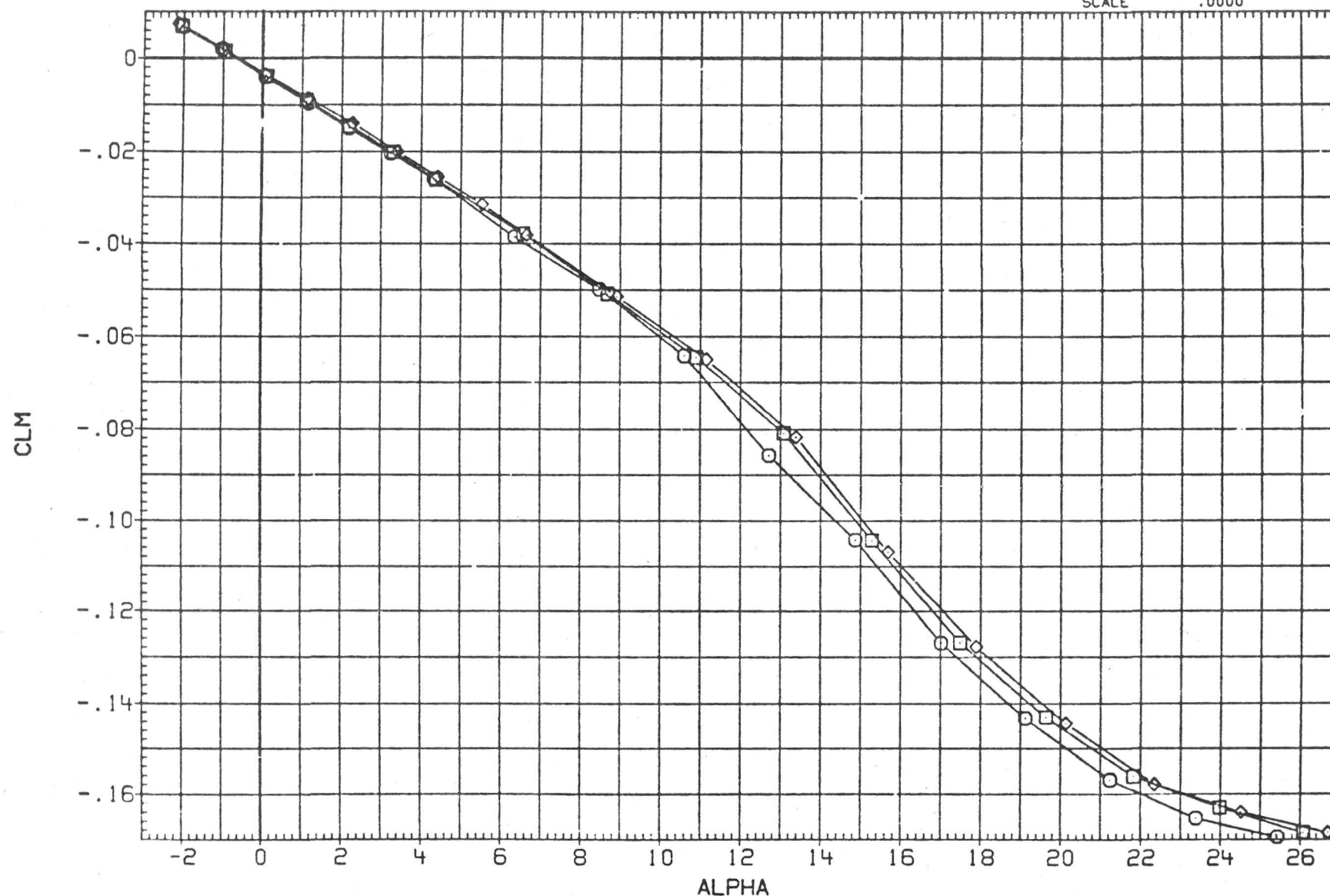


FIGURE 7. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 175

(JNC003) WING I 25-75-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 13.111 LESWP 25.000
 □ 19.699 FILSWP 25.000
 ◇ 26.209 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0643 SQ. M.
 LREF .2550 METERS
 BREF .3331 METERS
 XMRP .2304 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

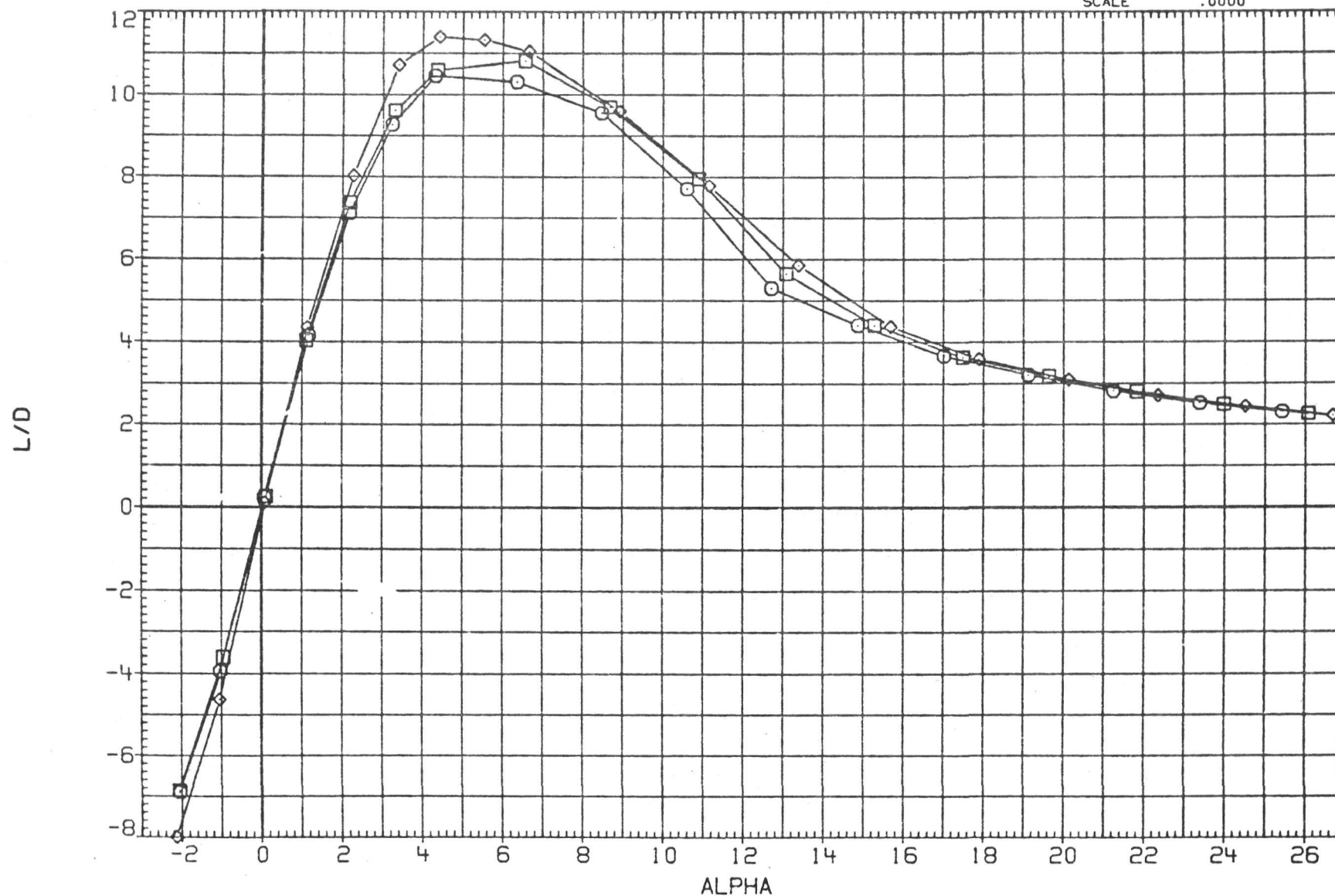


FIGURE 7. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 175

(JNC004) WING I 25-70-0008
 SYMBOL RN/M PARAMETRIC VALUES
 ○ 13.058 T/C .080 LESWP 25.000
 □ 19.453 FILSWP 70.000 TESWP 25.000
 ◇ 26.048 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0597 SQ. M.
 LREF .2236 METERS
 BREF .3331 METERS
 XMRP .1852 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

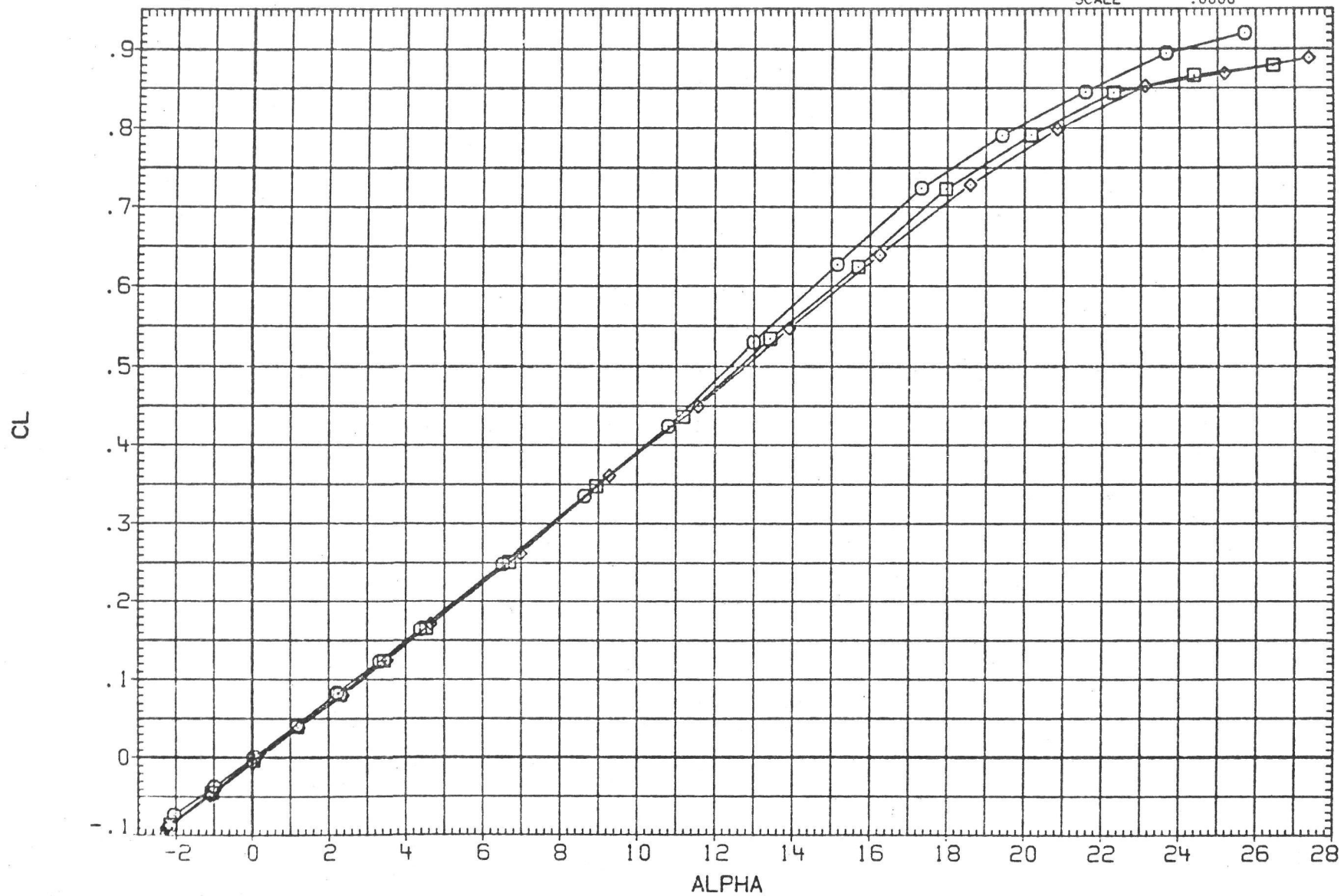


FIGURE 8. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 170

(JNC004) WING I 25-70-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES		
○	13.058	.080	LESWP	25.000	
□	19.453	70.000	TESWP	25.000	
◇	26.048	.000	MACH	.300	
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0597	SO. M.
LREF	.2236	METERS
BREF	.3331	METERS
XMRP	.1852	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

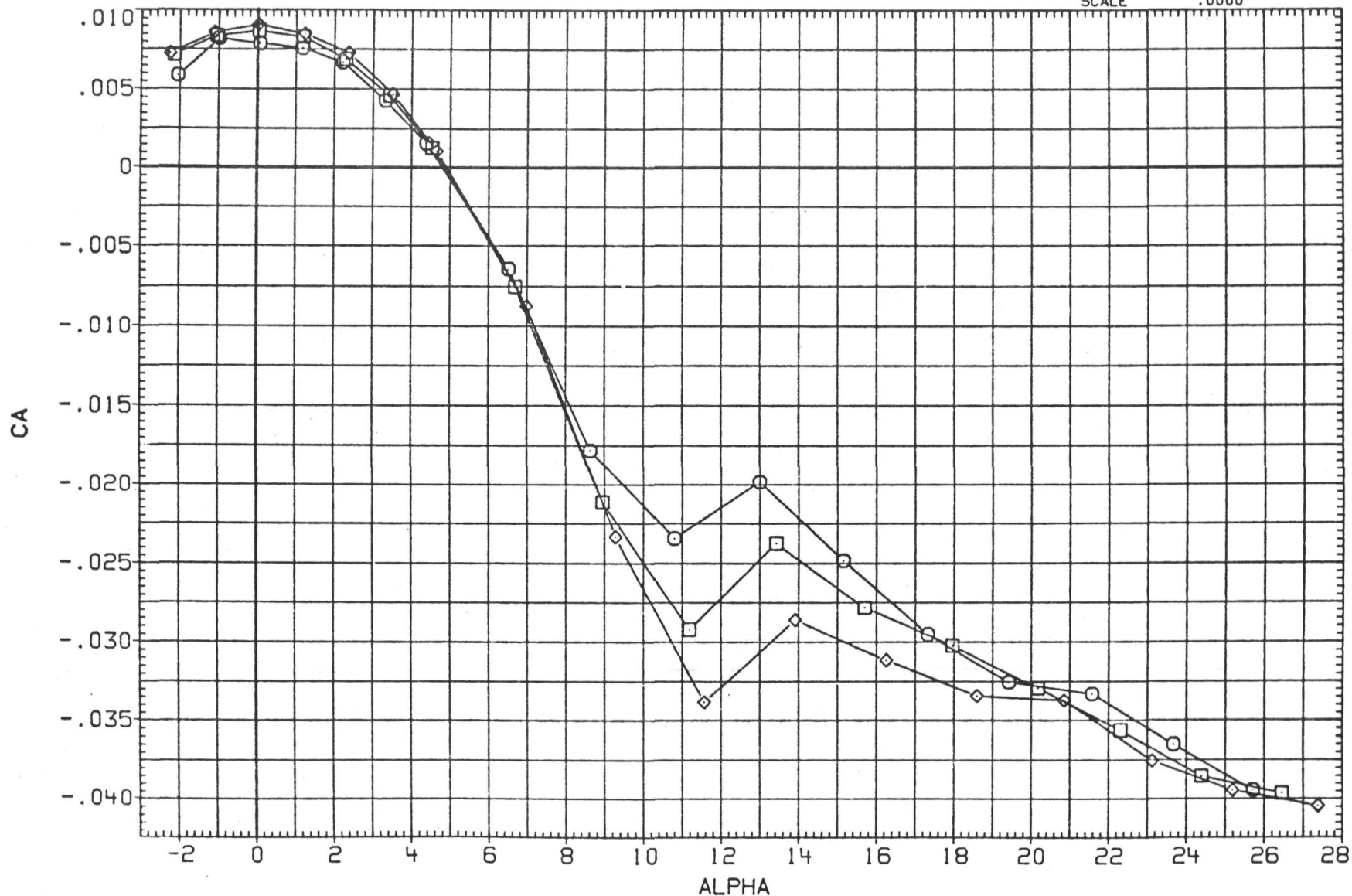


FIGURE 8. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 170

(JNC004) WING I 25-70-0008
 SYMBOL RN/M PARAMETRIC VALUES
 ○ 13.058 T/C .080 LESWP 25.000
 □ 19.453 FILSWP 70.000 TESWP 25.000
 ◇ 26.048 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0597 SQ. M.
 LREF .2236 METERS
 BREF .3331 METERS
 XMRP .1652 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

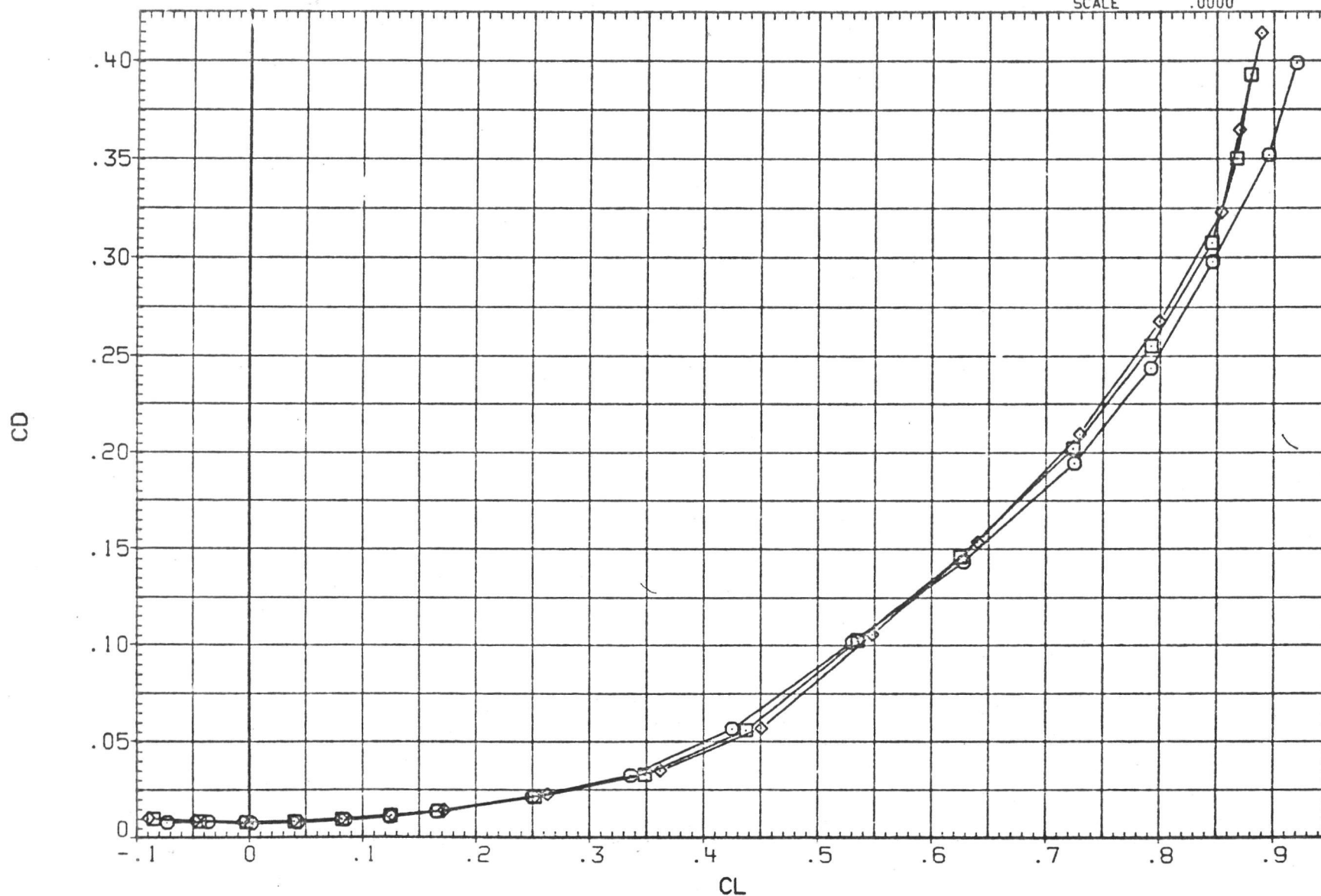


FIGURE 8. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 170

(JNC004) WING I 25-70-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	13.058	T/C	.080	LESWP	25.000
□	19.453	FILSWP	70.000	TESWP	25.000
◇	26.048	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION		
SREF	.0597	SQ. M.
LREF	.2236	METERS
BREF	.3331	METERS
XMRP	.1852	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

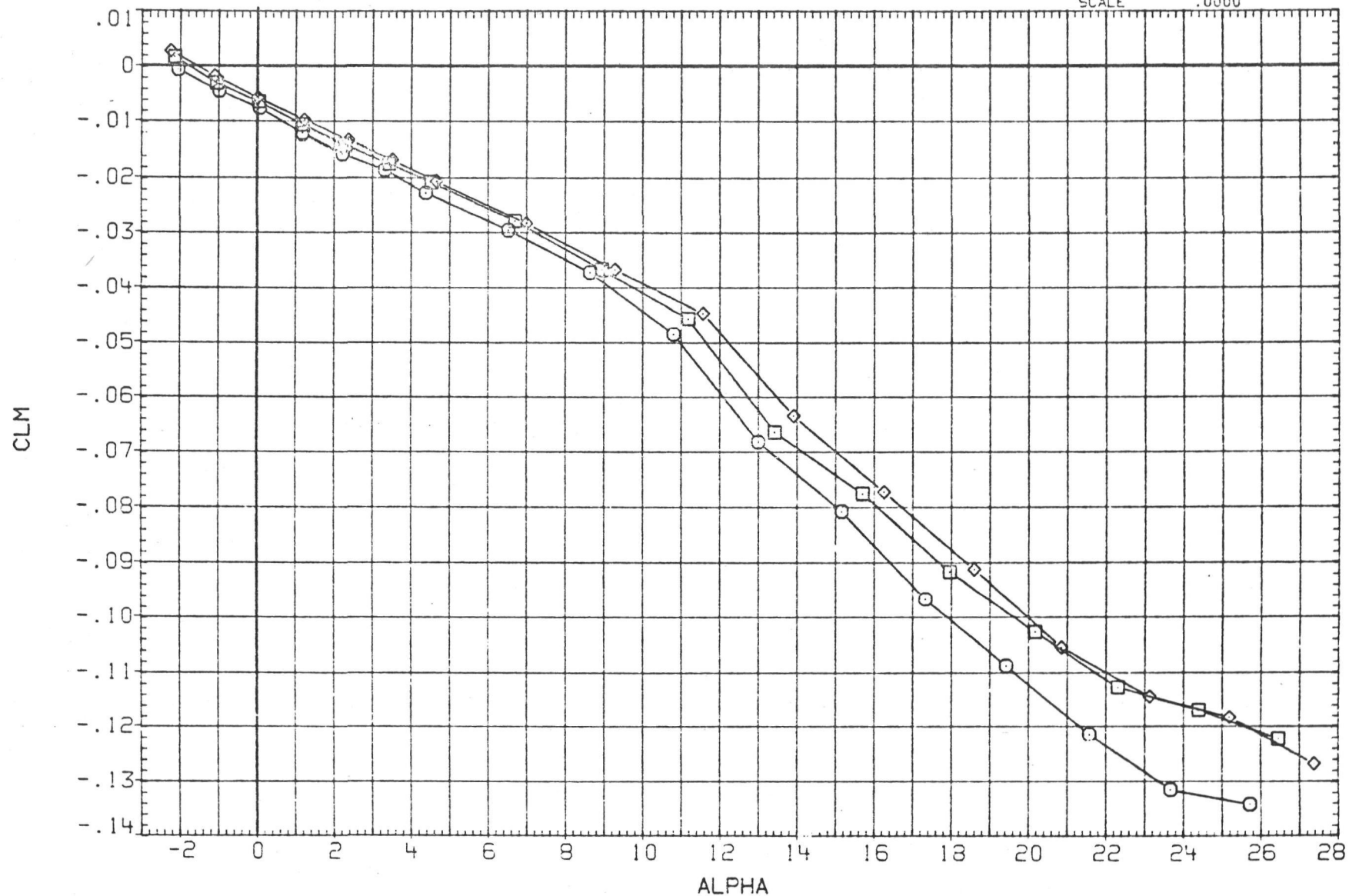


FIGURE 8. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 170

(JNC004) WING I 25-70-0008 AMES 12-086 (LA65)

SYMBOL		RN/M		PARAMETRIC VALUES	
○	13.058	T/C	.080	LESWP	25.000
□	19.453	FILSWP	70.000	TESWP	25.000
◇	26.048	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0597	SO. M.
LREF	.2236	METERS
BREF	.3331	METERS
XMRP	.1852	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

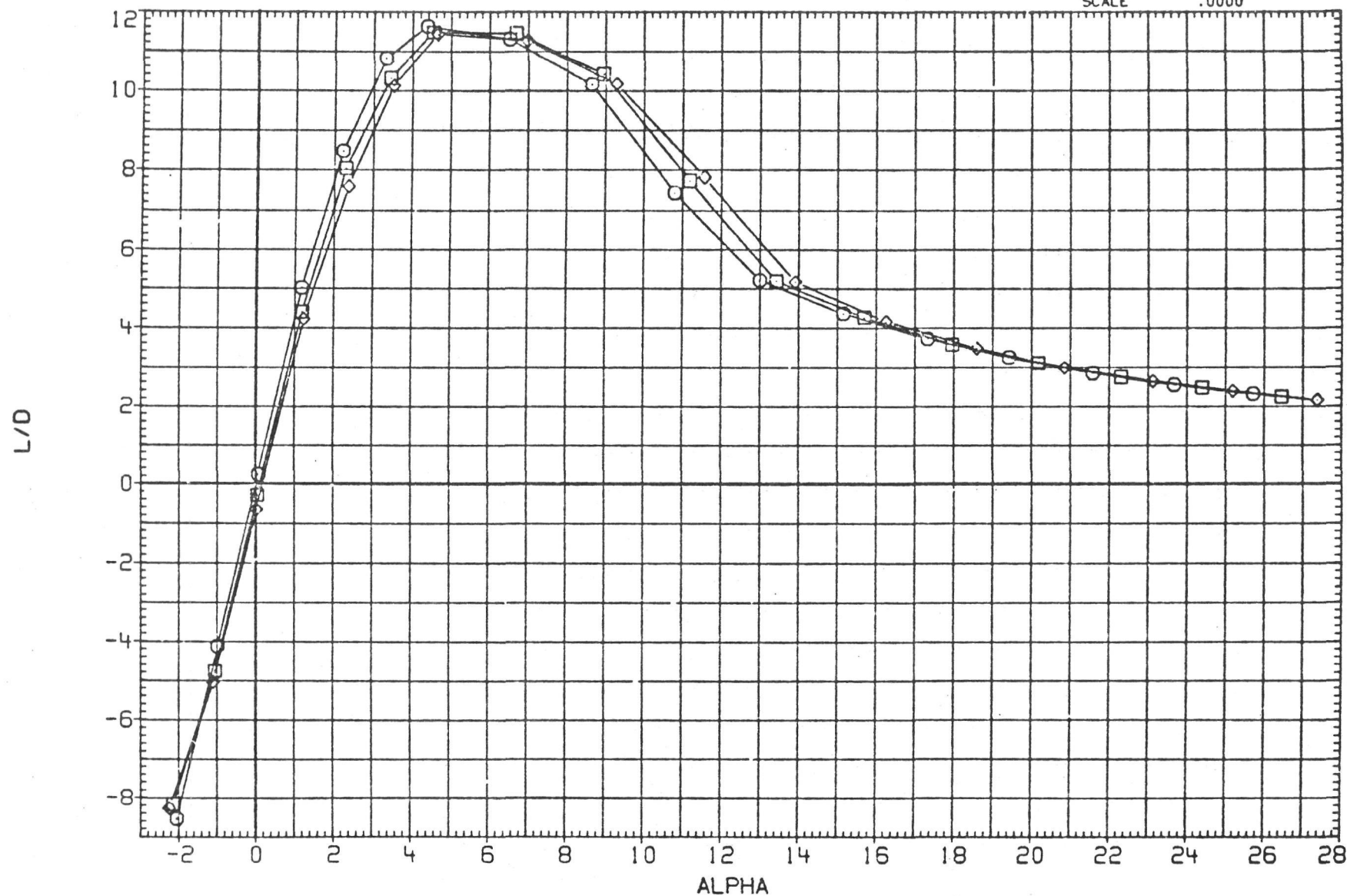


FIGURE 8. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 170

(JNC005) WING I 25-65-0008
 SYMBOL RN/M T/C FILSWP BETA GRITNO
 ○ 13.049 .080 LESWP 25.000
 □ 19.604 65.000 TESWP 25.000
 ◇ 26.291 .000 MACH .300

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0569 SQ. M.
 LREF .2055 METERS
 BREF .3331 METERS
 XMRP .1566 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

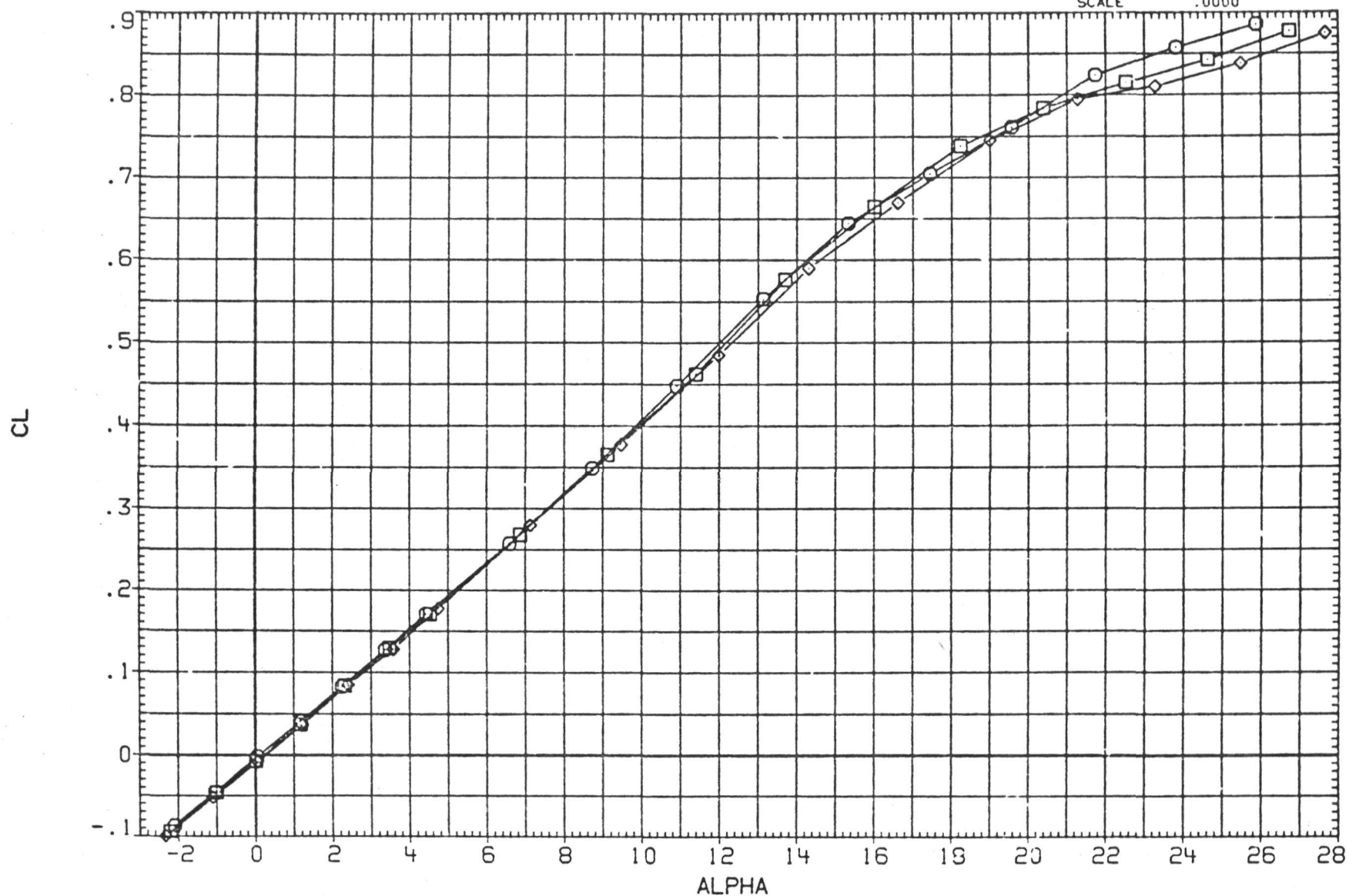


FIGURE 9. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 165

(JNC005) WING I 25-65-0008
 SYMBOL RN/M PARAMETRIC VALUES
 ○ 13.049 T/C .080 LESWP 25.000
 □ 19.604 FILSWP 65.000 TESWP 25.000
 ◇ 26.291 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0569 SQ. M.
 LREF .2055 METERS
 BREF .3331 METERS
 XMRP .1566 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

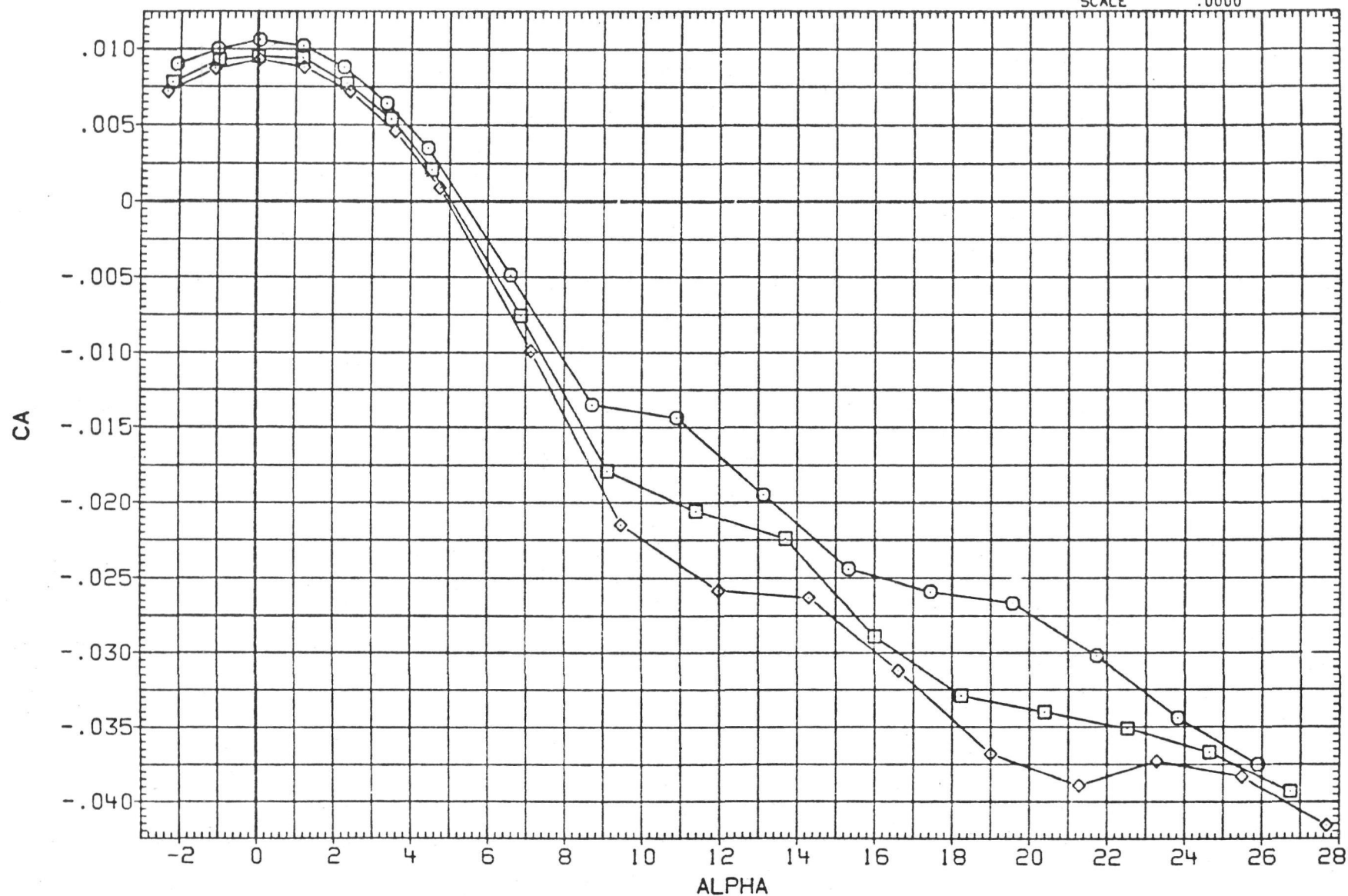


FIGURE 9. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 165

(JNC005) WING I 25-65-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES		
○	13.049	FILSWP	.080	LESWP	25.000
□	19.604	BETA	65.000	TESWP	25.000
◇	26.291	GRITNO	.000	MACH	.300

REFERENCE INFORMATION		
SREF	.0569	SQ. M.
LREF	.2055	METERS
BREF	.3331	METERS
XMRP	.1566	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

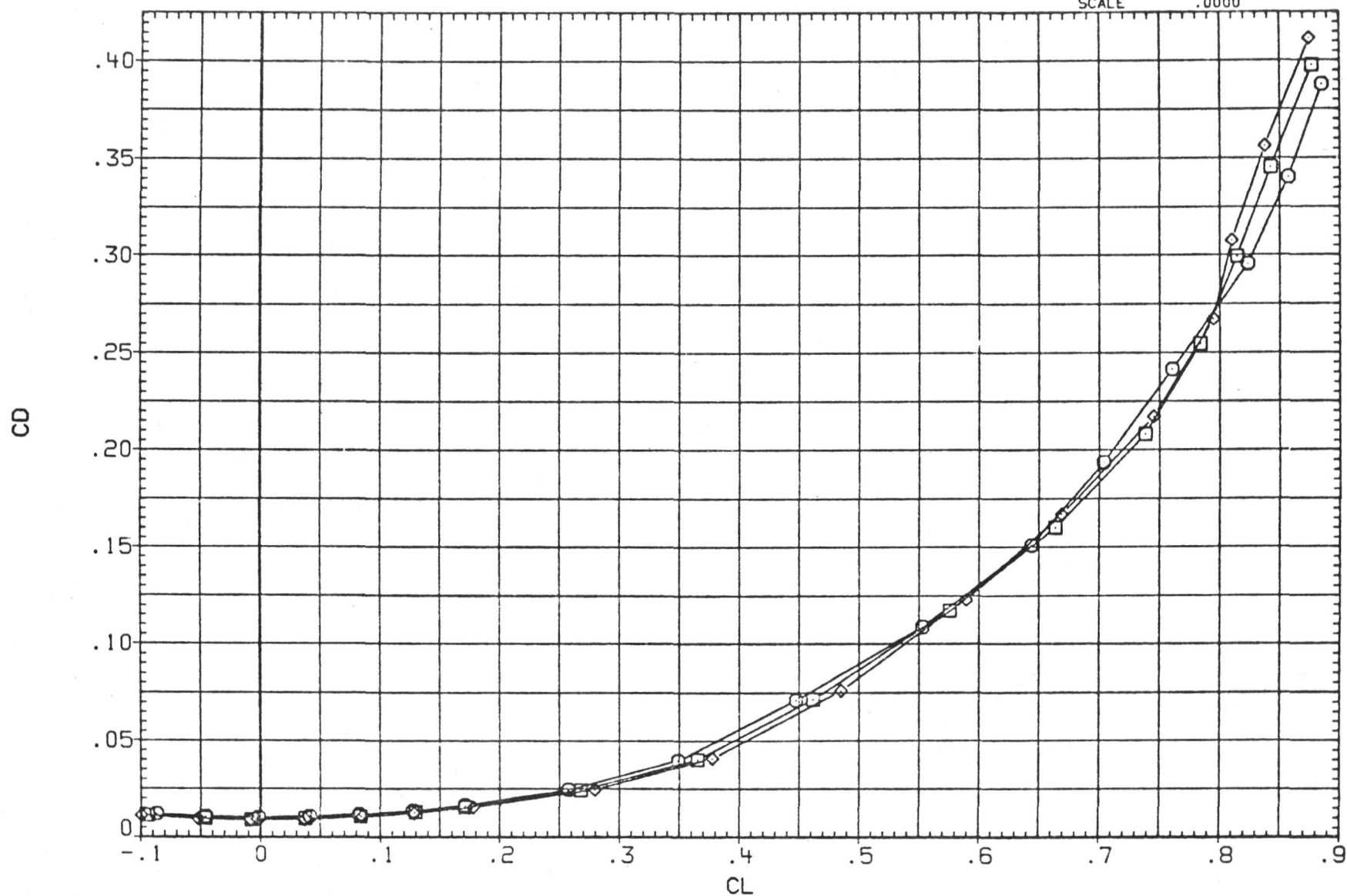


FIGURE 9. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 165

(JNC005) WING I 25-65-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 13.049 FILSWP .080 LESWP 25.000
 □ 19.604 BETA .000 TESWP 25.000
 ◇ 26.291 GRITNO 120.000 MACH .300

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0569 SQ. M.
 LREF .2055 METERS
 BREF .3331 METERS
 XMRP .1566 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

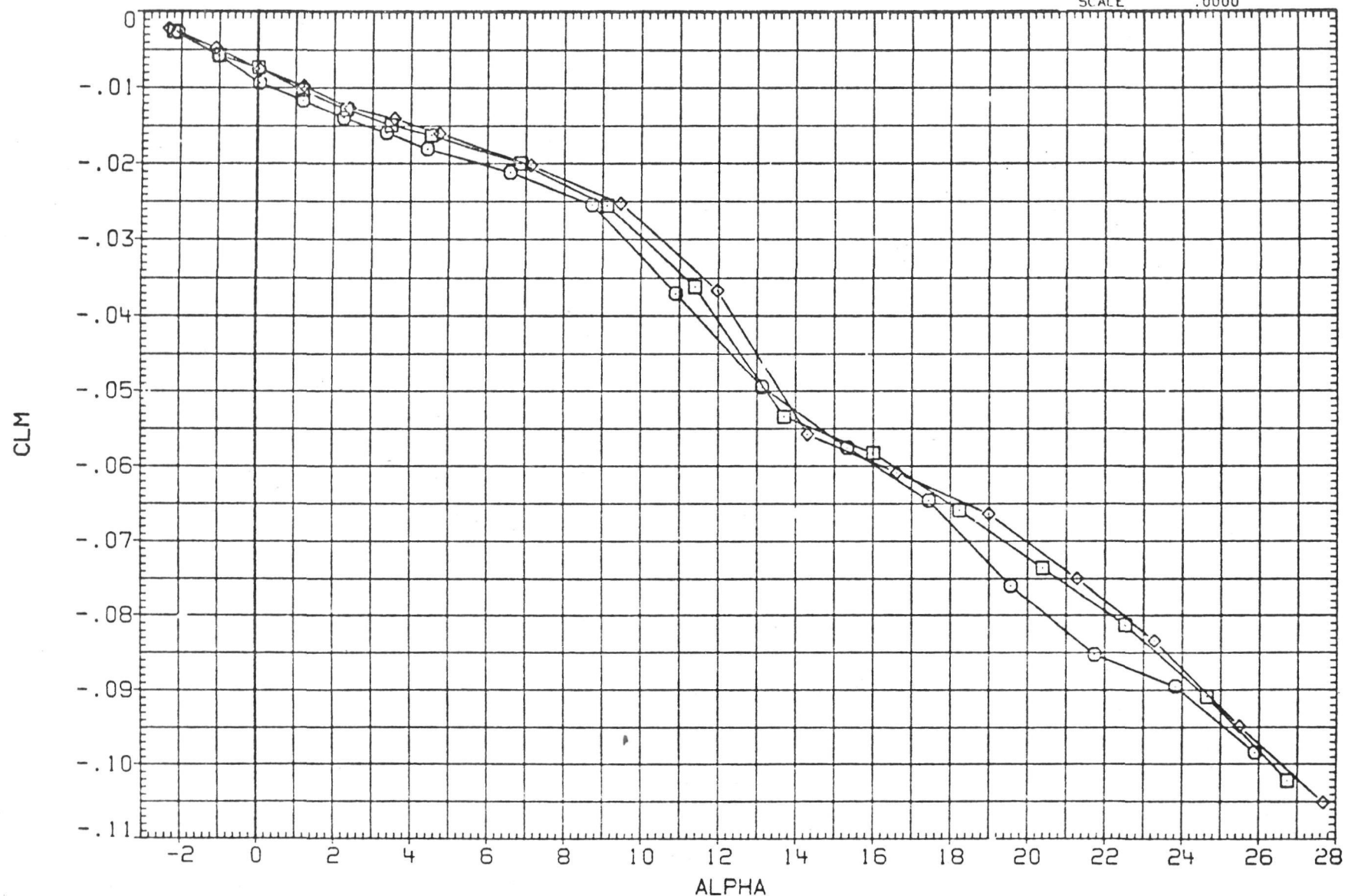


FIGURE 9. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 165

(JNC005) WING I 25-65-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES
○	13.049	T/C .080 LESWP 25.000
□	19.604	FILSWP 65.000 TESWP 25.000
◇	26.291	BETA .000 MACH .300
		GRITNO 120.000

REFERENCE INFORMATION		
SREF	.0569	SQ. M.
LREF	.2055	METERS
BREF	.3331	METERS
XMRP	.1566	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

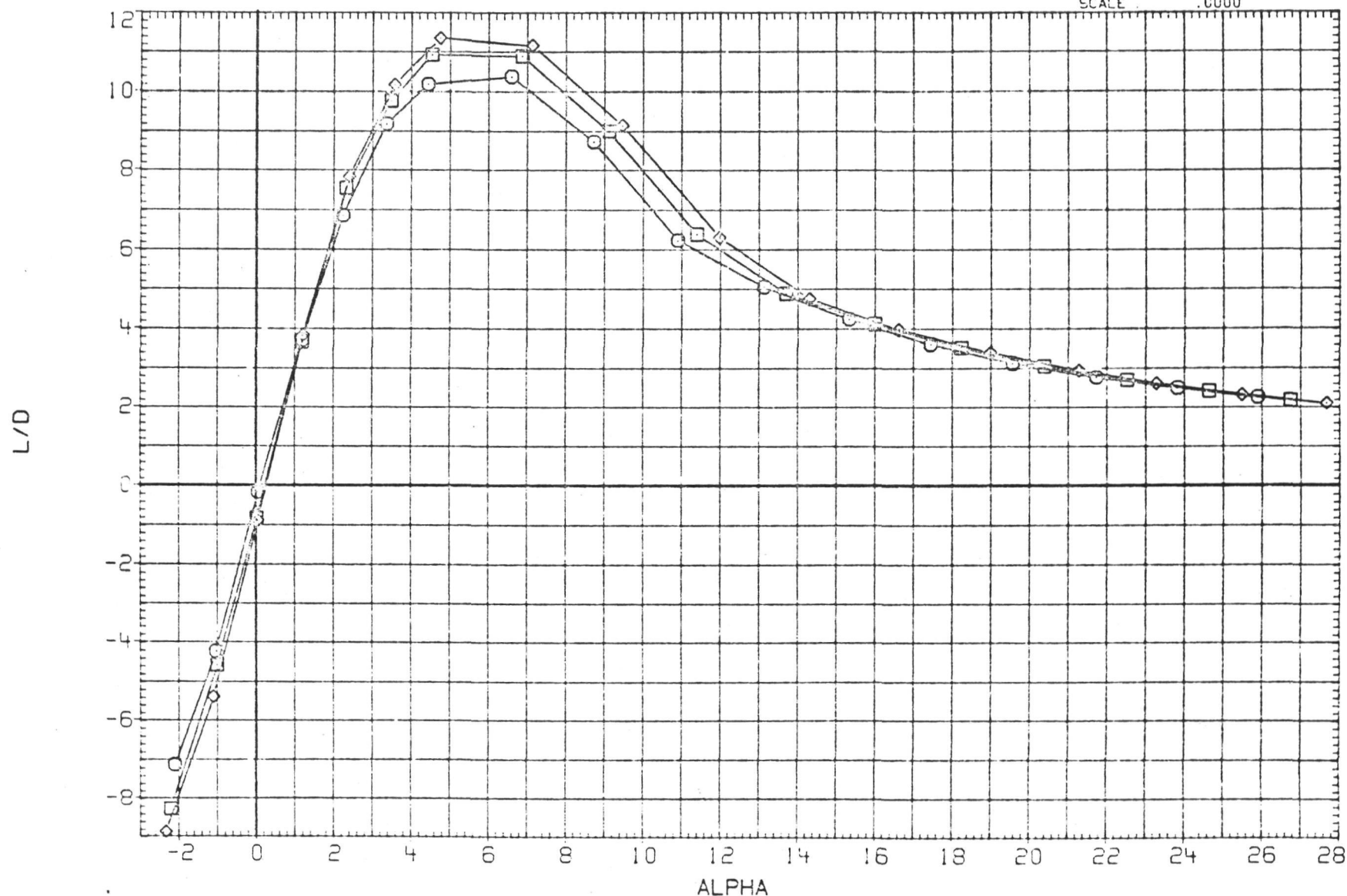


FIGURE 9. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 165

(JNC006) WING I 25-60-0008 AMES 12-086 (LA55)

SYMBOL		PARAMETRIC VALUES			
○	13.081	T/C	.080	LESWP	25.000
□	19.607	FILSWP	60.000	TESWP	25.000
◇	26.248	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0549	SQ. M.
LREF	.1936	METERS
BREF	.3331	METERS
XMRP	.1366	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

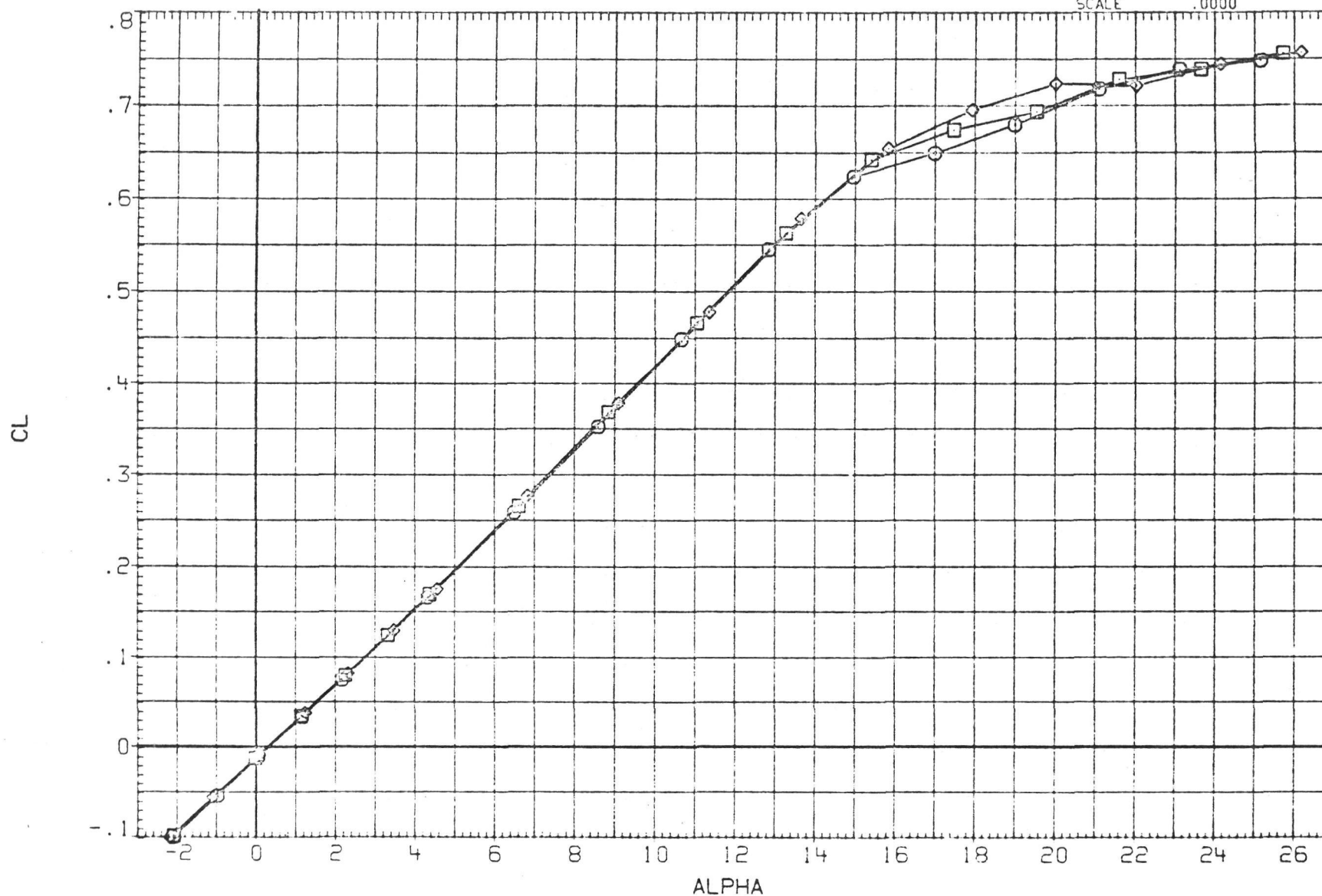


FIGURE 10. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 160

(JNC006) WING I 25-60-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES	LESWP	25.000
○	13.081	FILSWP	60.000	TESWP	25.000
□	19.607	BETA	.000	MACH	.300
◇	26.248	GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0549	SQ. M.
LREF	.1936	METERS
BREF	.3331	METERS
XMRP	.1355	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

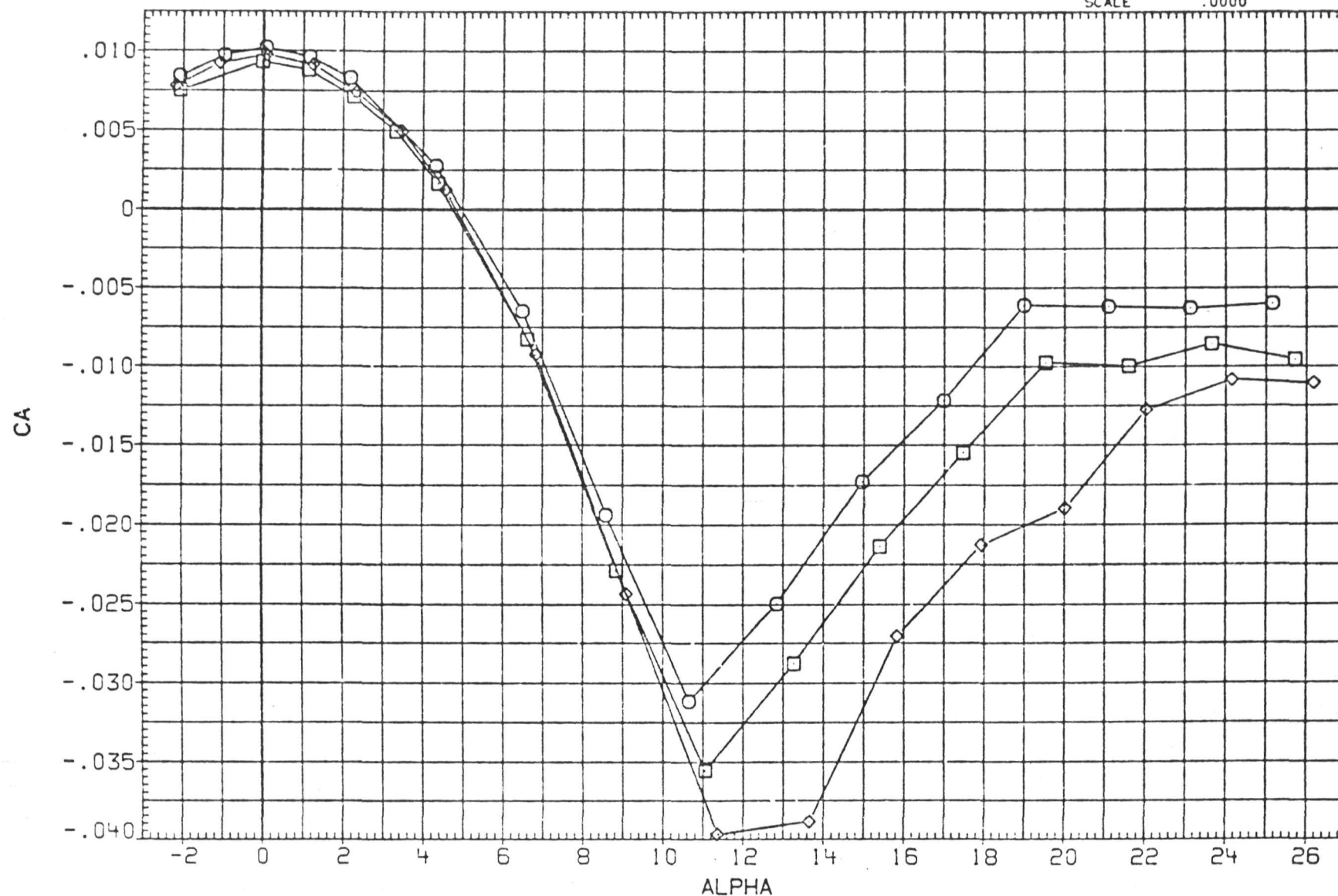


FIGURE 10. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 160

(JNC006)

WING I

25-60-0008

AMES 12-086 (LA65)

SYMBOL

RN/M

PARAMETRIC VALUES

REFERENCE INFORMATION

○

13.081

T/C

.080

LESWP

25.000

SREF .0549

SQ. M.

□

19.607

FILSWP

60.000

TESWP

25.000

LREF .1936

METERS

◇

26.248

BETA

.000

MACH

.300

BREF .3331

METERS

GRITNO

120.000

XMRP .1366

M. XB

YMRP .0000

M. YB

ZMRP .0000

M. ZB

SCALE .0000

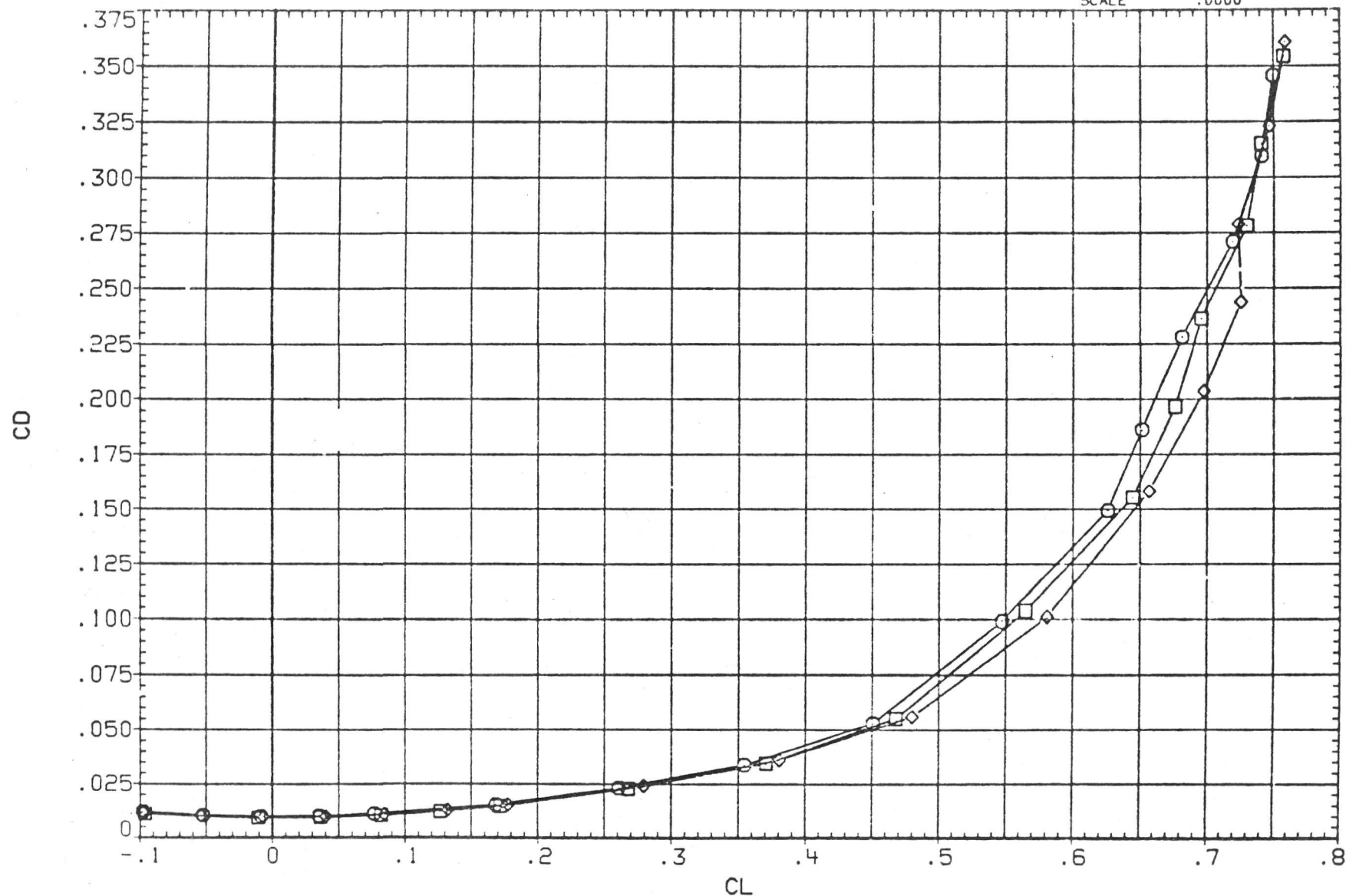


FIGURE 10. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 160

(JNC006) WING I 25-60-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	13.081	T/C	.080	LESWP	25.000
□	19.607	FILSWP	60.000	TESWP	25.000
◇	26.248	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION		
SREF	.0549	SQ. M.
LREF	.1936	METERS
BREF	.3331	METERS
XMRP	.1366	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

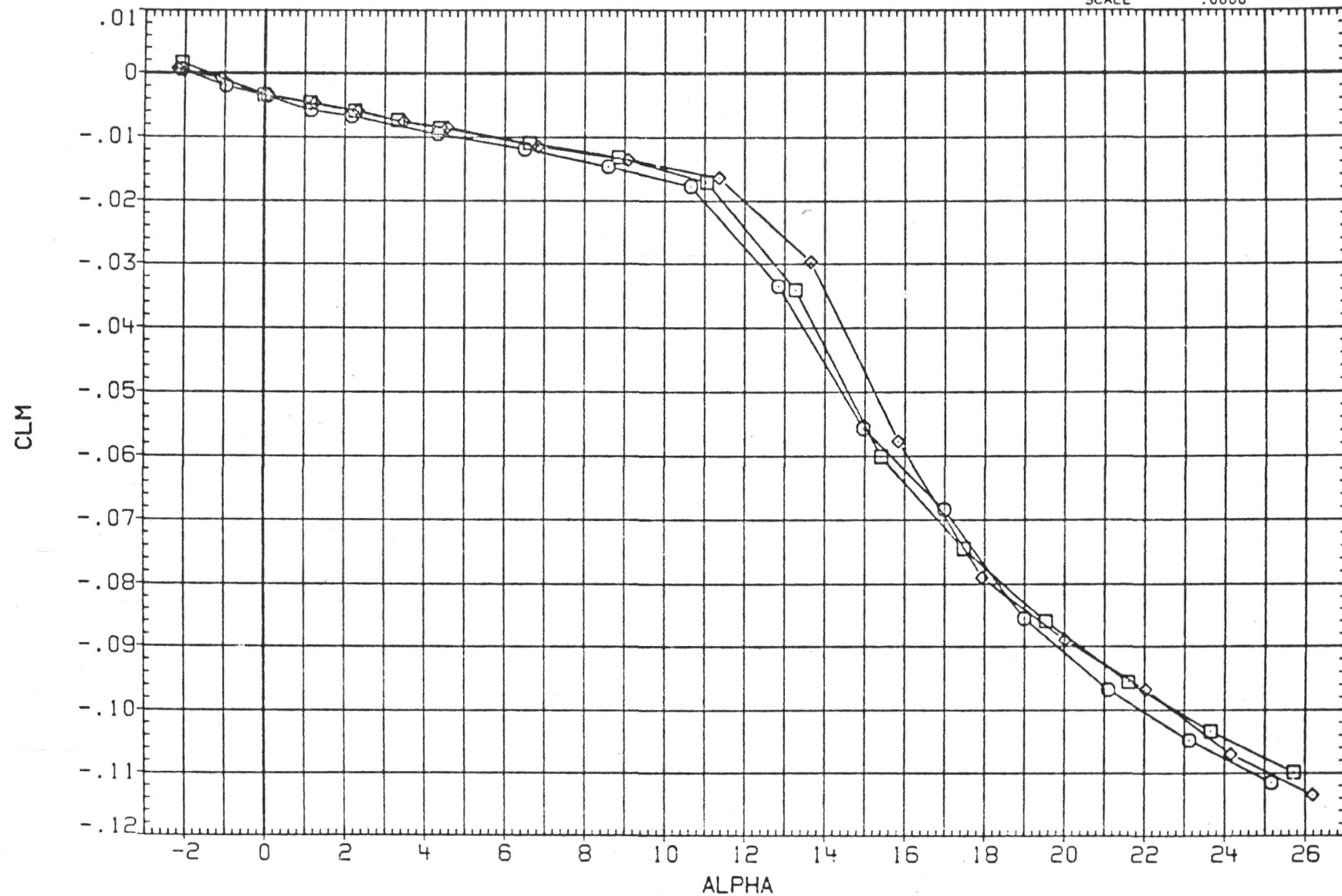


FIGURE 10. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 160

SYMBOL		RN/M	PARAMETRIC VALUES		
○		13.081	T/C	.090	LESWP 25.000
□		19.607	FILSWP	60.000	TESWP 25.000
◇		26.248	BETA	.000	MACH .300
			GRITNO	120.000	

REFERENCE INFORMATION		
SREF	.0549	SQ. M.
LREF	.1936	METERS
BREF	.3331	METERS
XMRP	.1366	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

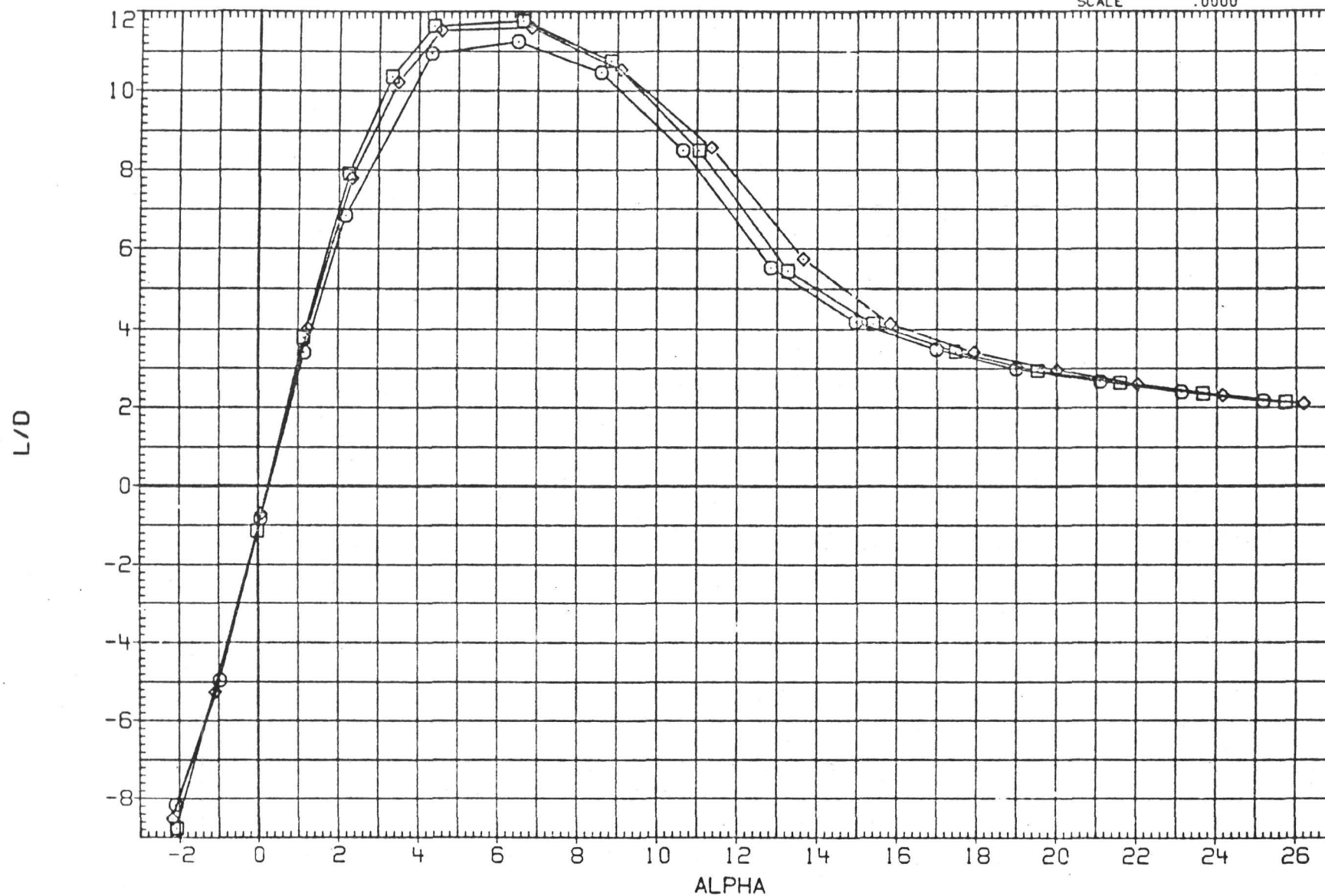


FIGURE 10. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 160

(JNC007) WING I 25-55-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 13.049 .080 LESWP 25.000
 □ 19.460 FILSWP 55.000 TESWP 25.000
 ◇ 25.933 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0535 SQ. M.
 LREF .1852 METERS
 BREF .3331 METERS
 XMRP .1215 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

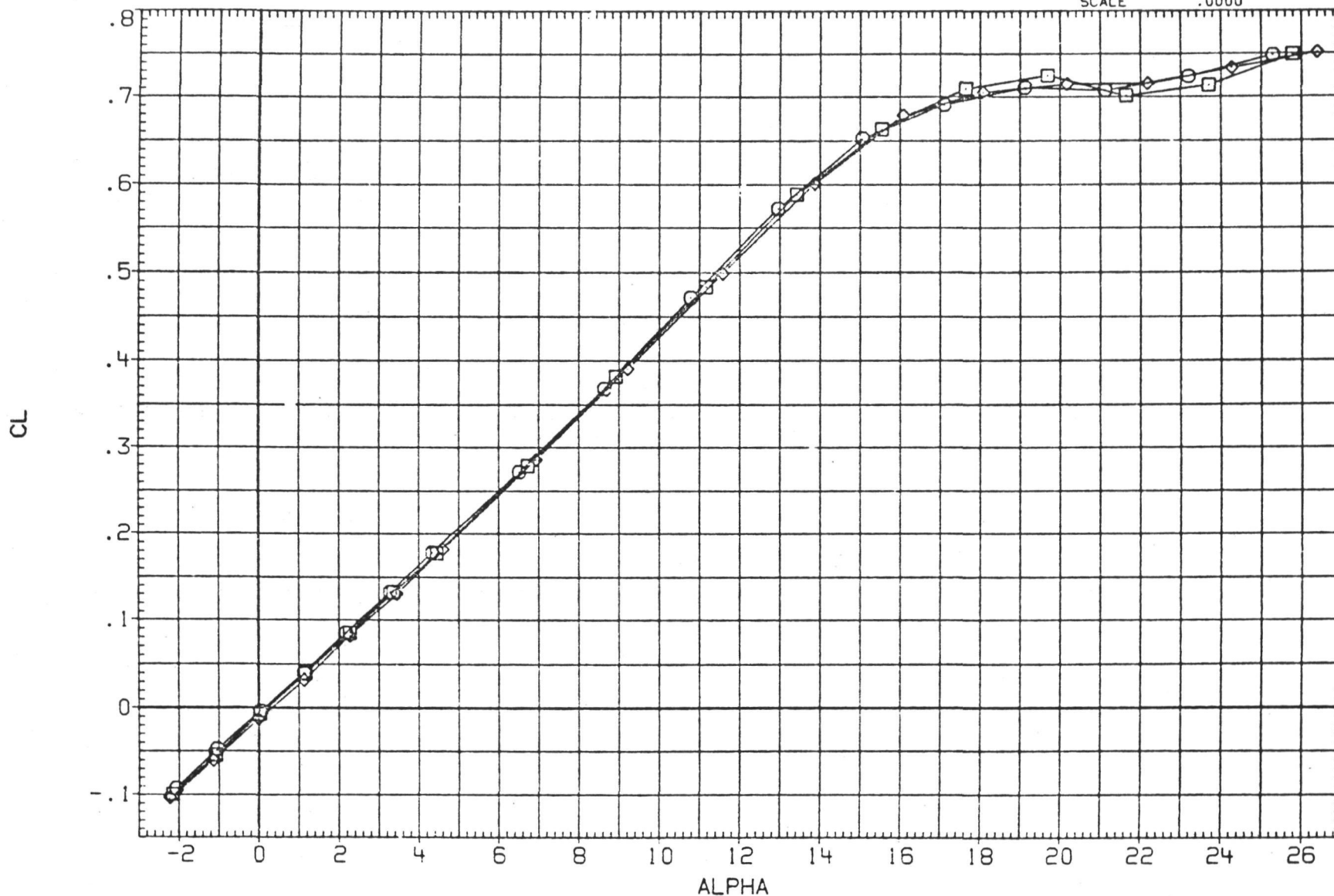


FIGURE 11. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 155

(JNC007) WING I 25-55-0008 AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	13.049	T/C	.080	LESWP	25.000
□	19.460	FILSWP	55.000	TESWP	25.000
◇	25.933	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0535	SQ. M.
LREF	.1852	METERS
BREF	.3331	METERS
XMRP	.1215	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

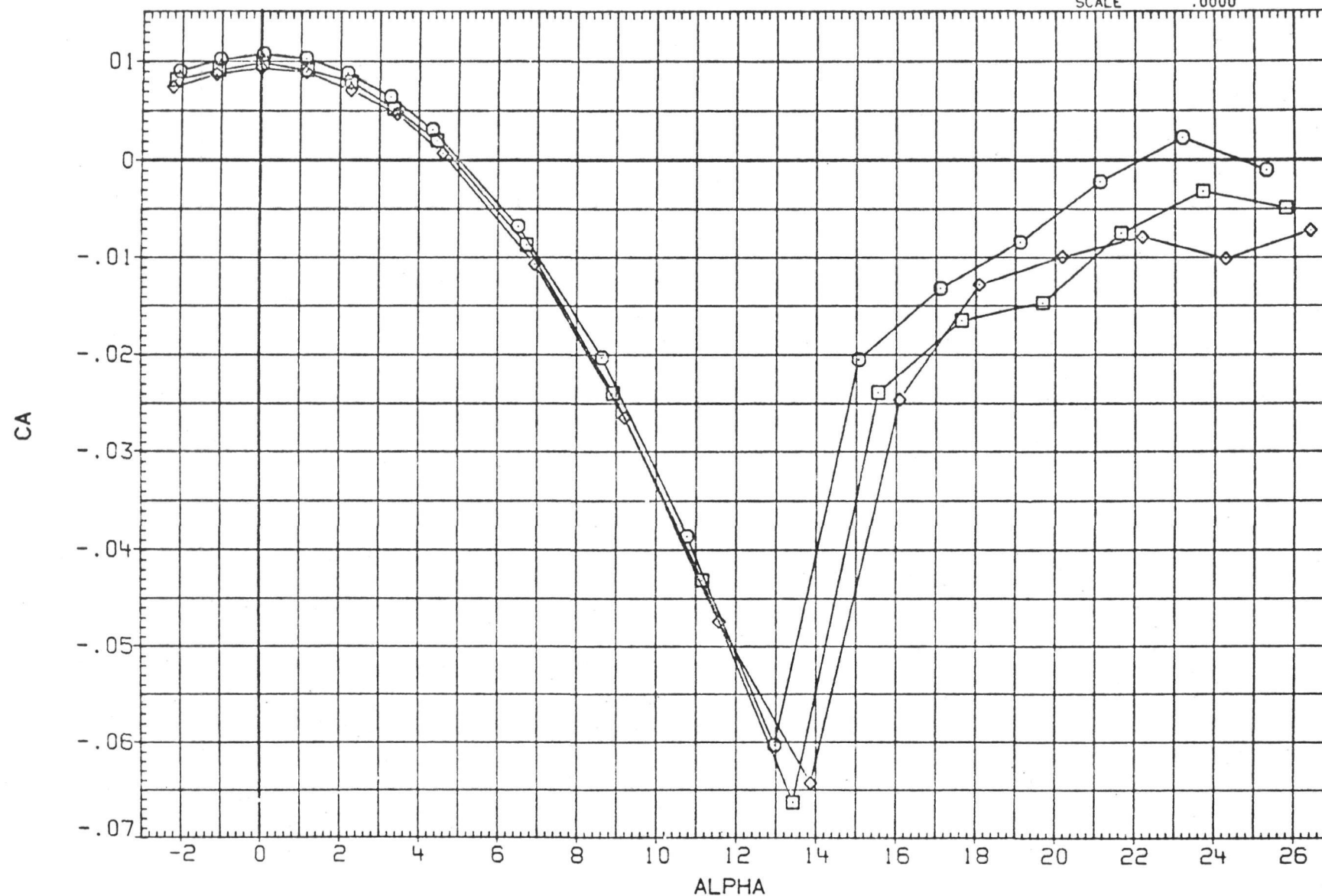


FIGURE 11. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 155

(JNC007) WING I 25-55-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 13.049 .080 LESWP 25.000
 □ 19.460 FILSWP 55.000 TESWP 25.000
 ◇ 25.933 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0535 SQ. M.
 LREF .1852 METERS
 BREF .3331 METERS
 XMRP .1215 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

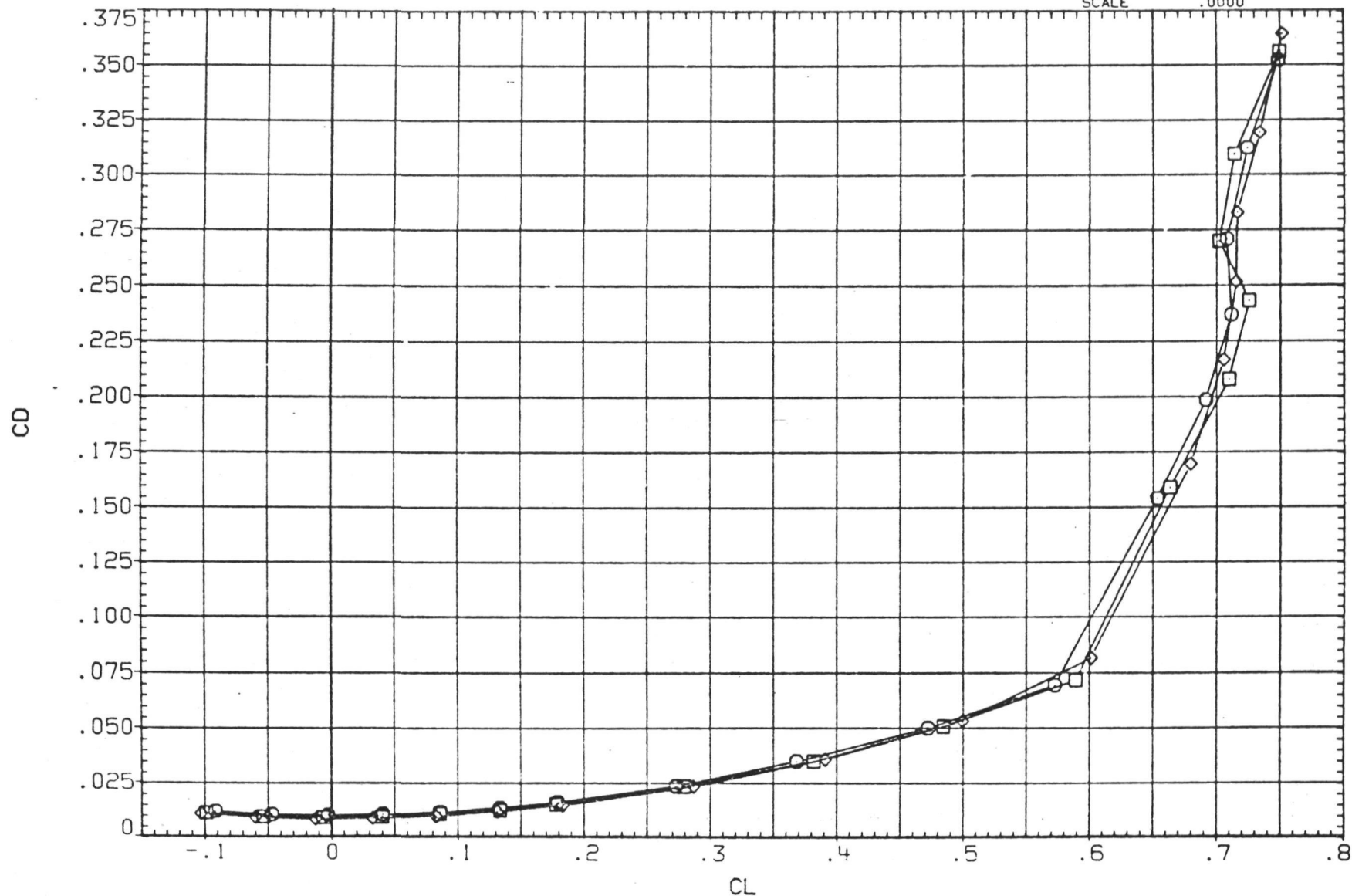


FIGURE 11. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 155

(JNC007) WING I 25-55-0008 AMES 12-086 (LA65)

SYMBOL		RN/M	PARAMETRIC VALUES			
○		13.049	T/C	.080	LESWP	25.000
□		19.460	FILSWP	55.000	TESWP	25.000
◇		25.933	BETA	.000	MACH	.300
			GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0535	SO. M.
LREF	.1852	METERS
BREF	.3331	METERS
XMRP	.1215	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

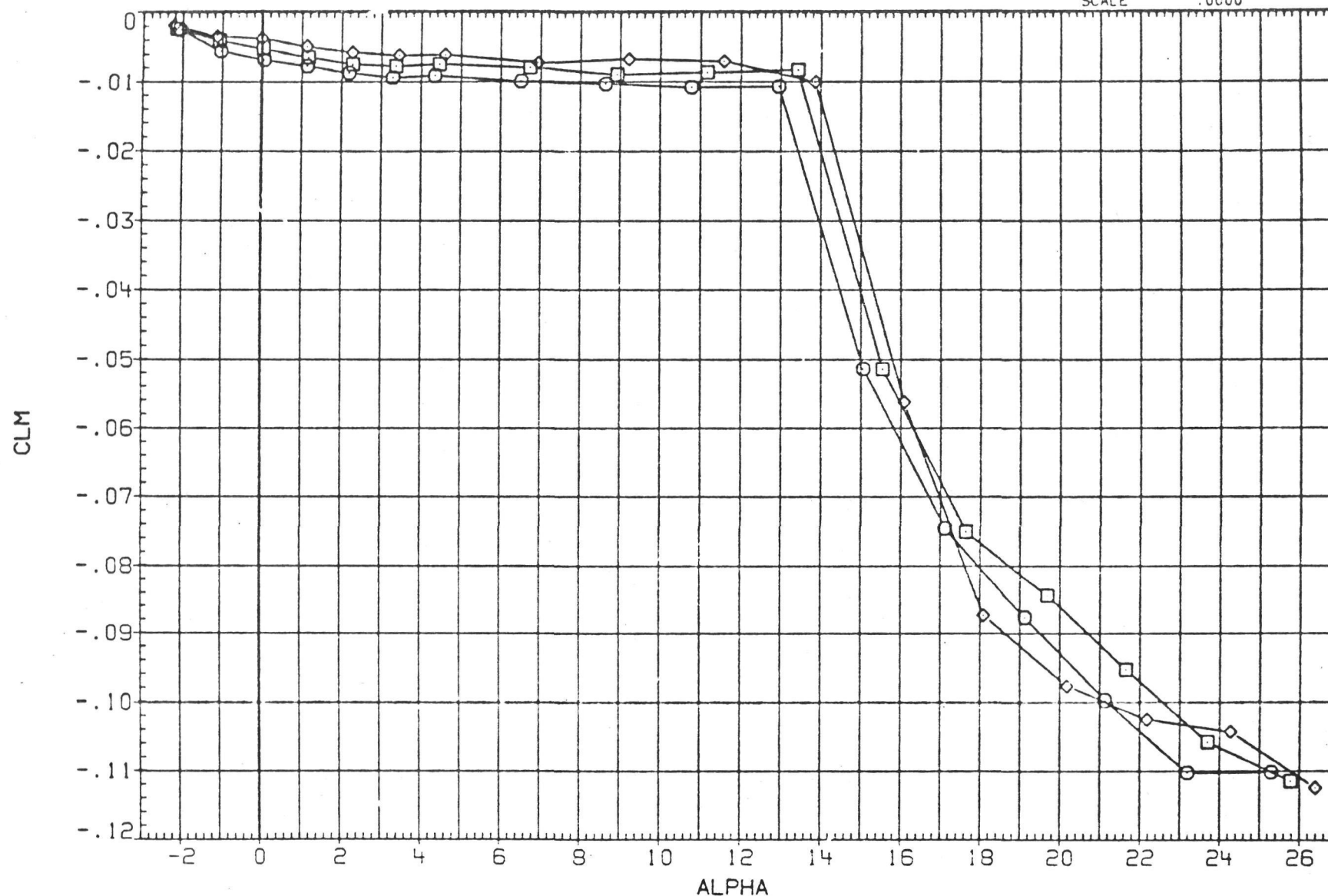


FIGURE 11. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 155

(JNC007) WING I 25-55-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 13.049 .080 LESWP 25.000
 □ 19.460 FILSWP 55.000 TESWP 25.000
 ◇ 25.933 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0535 SQ. M.
 LREF .1852 METERS
 BREF .3331 METERS
 XMRP .1215 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

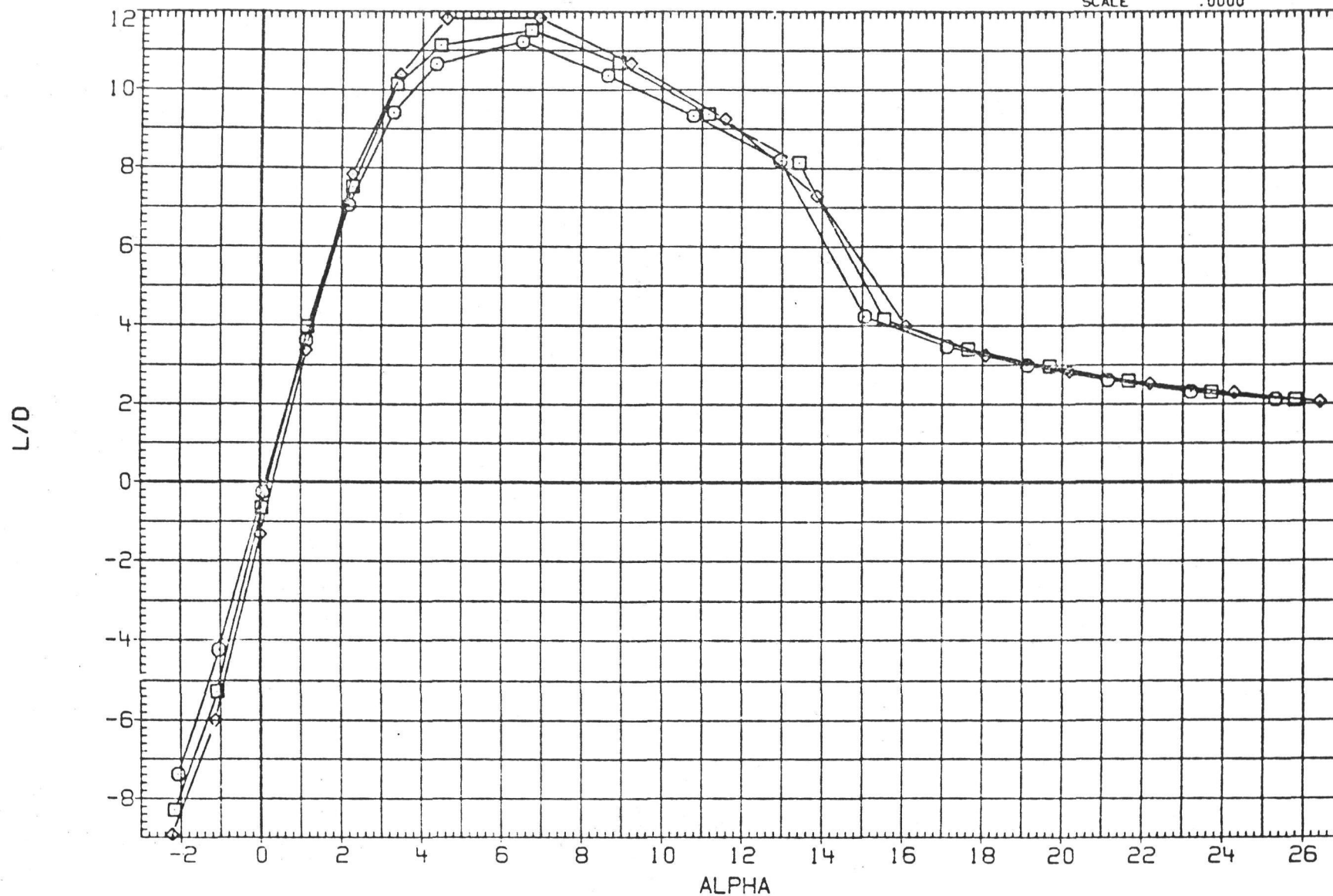


FIGURE 11. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 155

(JNC008) WING I 25-45-0008 AMES 12-086 (LA65)

SYMBOL		RN/M	PARAMETRIC VALUES			
○		13.098	T/C	.080	LESWP	25.000
□		19.473	FILSWP	45.000	TESWP	25.000
◇		26.002	BETA	.000	MACH	.300
			GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0515	SQ. M.
LREF	.1739	METERS
BREF	.3331	METERS
XMRP	.0999	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

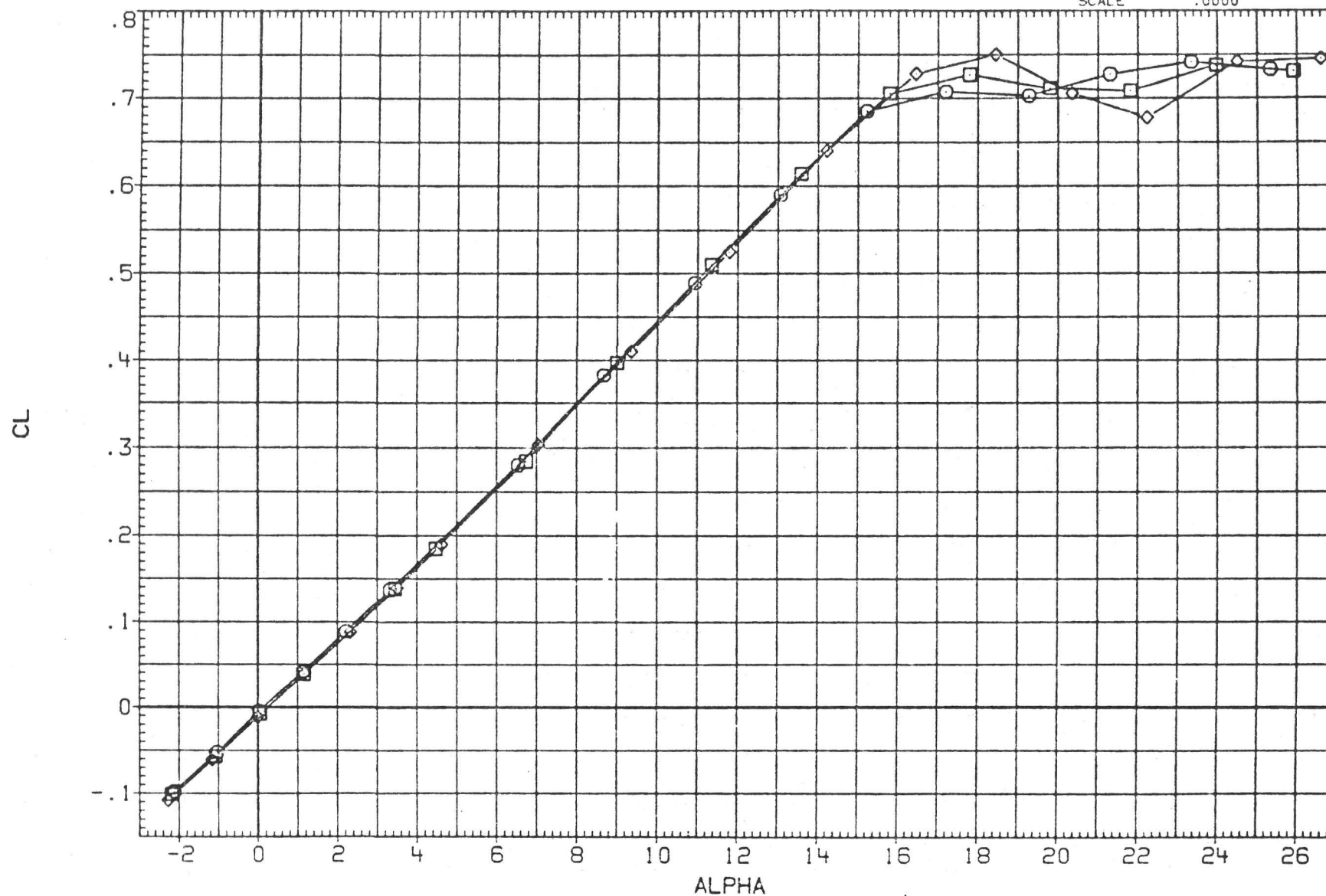


FIGURE 12. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 145

(JNC008) WING I 25-45-0008
 SYMBOL RN/M PARAMETRIC VALUES
 ○ 13.098 T/C .080 LESWP 25.000
 □ 19.473 FILSWP 45.000 TESWP 25.000
 ◇ 26.002 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0515 SQ. M.
 LREF .1739 METERS
 BREF .3331 METERS
 XMRP .0999 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

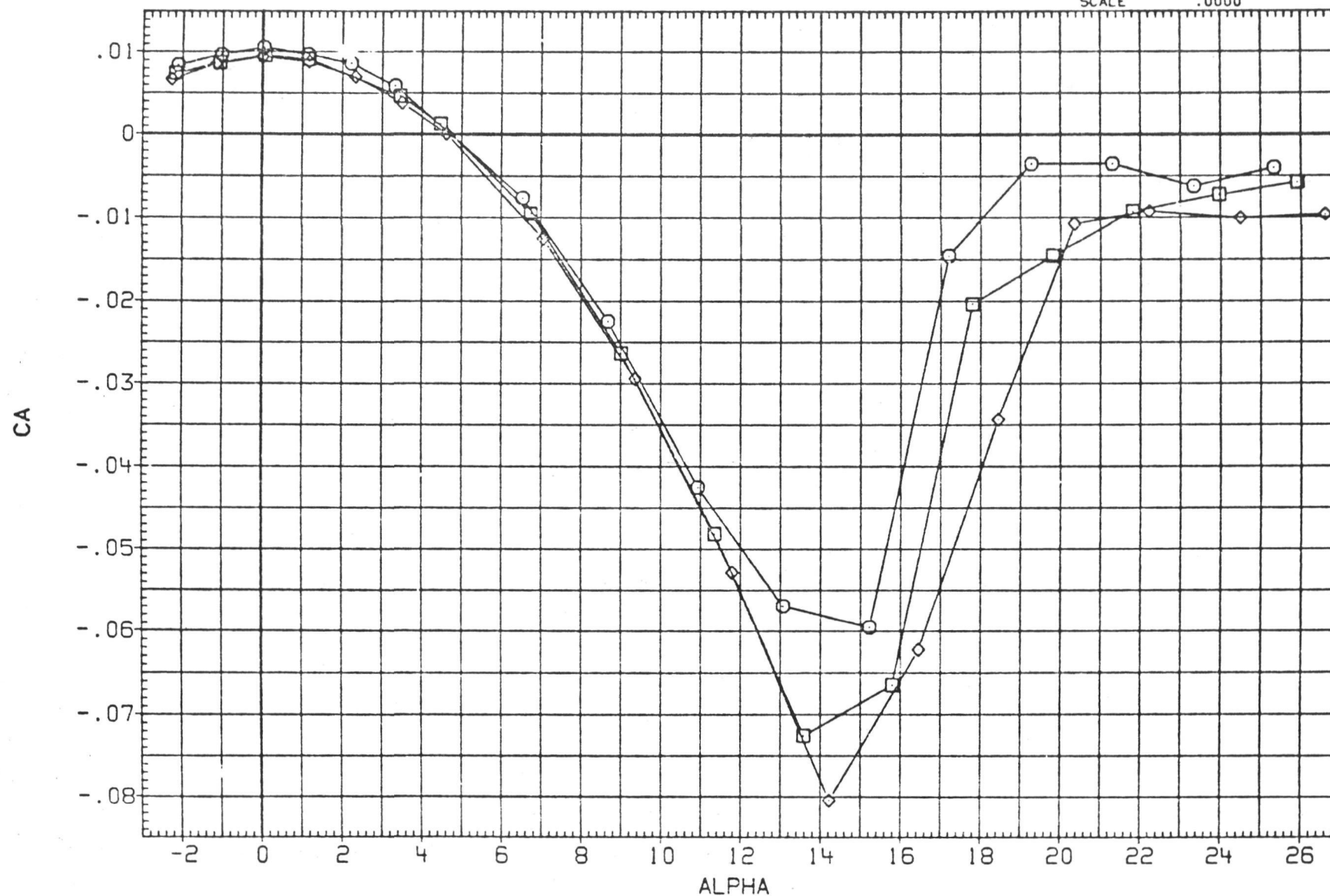


FIGURE 12. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 145

(JNC008) WING I 25-45-0008 AMES 12-086 (LA65)

SYMBOL		PARAMETRIC VALUES			
○	13.098	T/C	.080	LESWP	25.000
□	19.473	FILSWP	45.000	TESWP	25.000
◇	26.002	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0515	SO. M.
LREF	.1739	METERS
BREF	.3331	METERS
XMRP	.0999	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

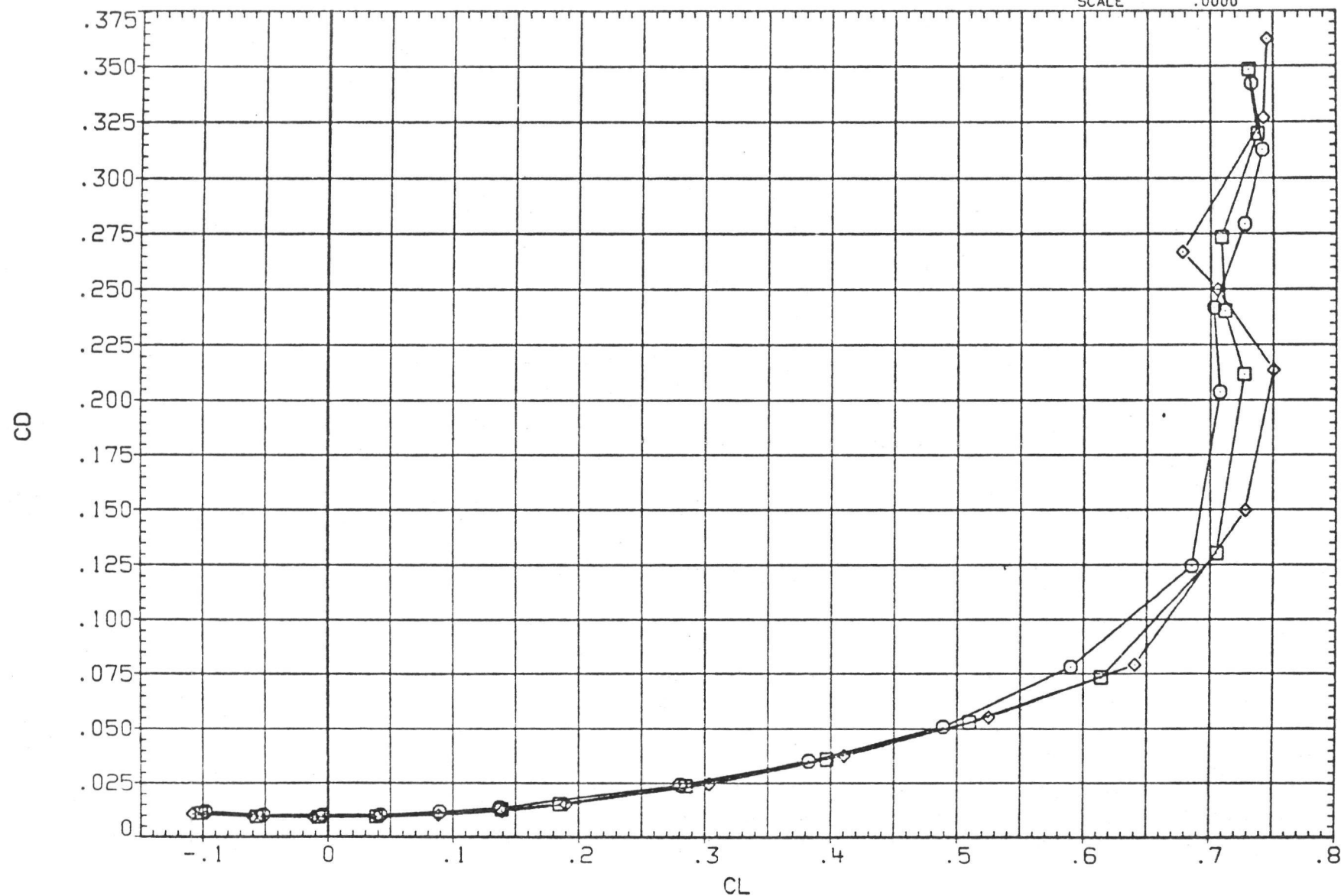


FIGURE 12. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 145

(JNC008) WING I 25-45-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	13.098	T/C	.080	LESWP	25.000
□	19.473	FILSWP	45.000	TESWP	25.000
◇	26.002	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0515	SQ. M.
LREF	.1739	METERS
BREF	.3331	METERS
XMRP	.0999	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

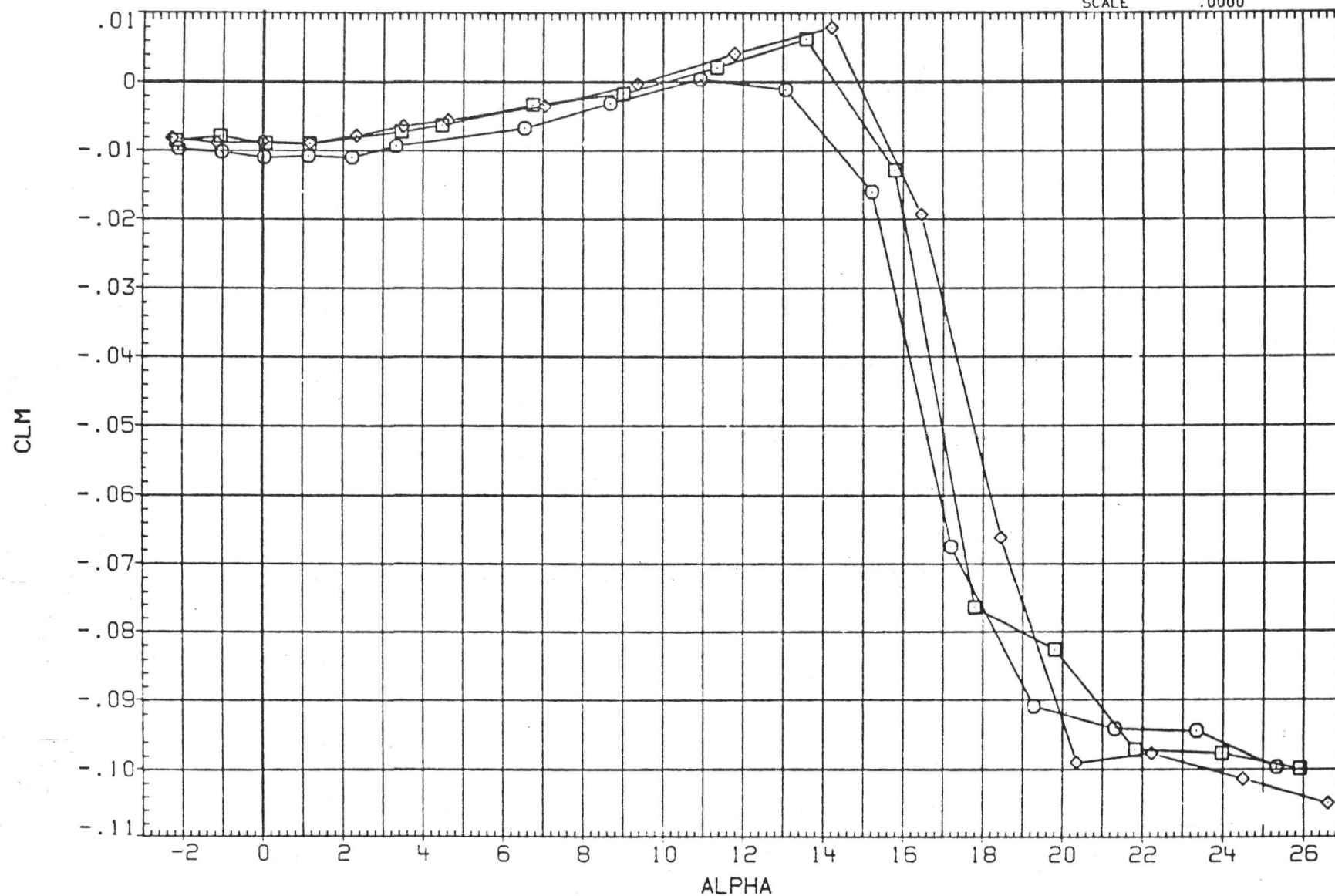


FIGURE 12. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 145

(JNC008) WING I 25-45-0008 AMES 12-086 (LA65)

SYMBOL		PARAMETRIC VALUES			
○	13.098	T/C	.080	LESWP	25.000
□	19.473	FILSWP	45.000	TESWP	25.000
◇	26.002	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0515	SQ. M.
LREF	.1739	METERS
BREF	.3331	METERS
XMRP	.0999	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

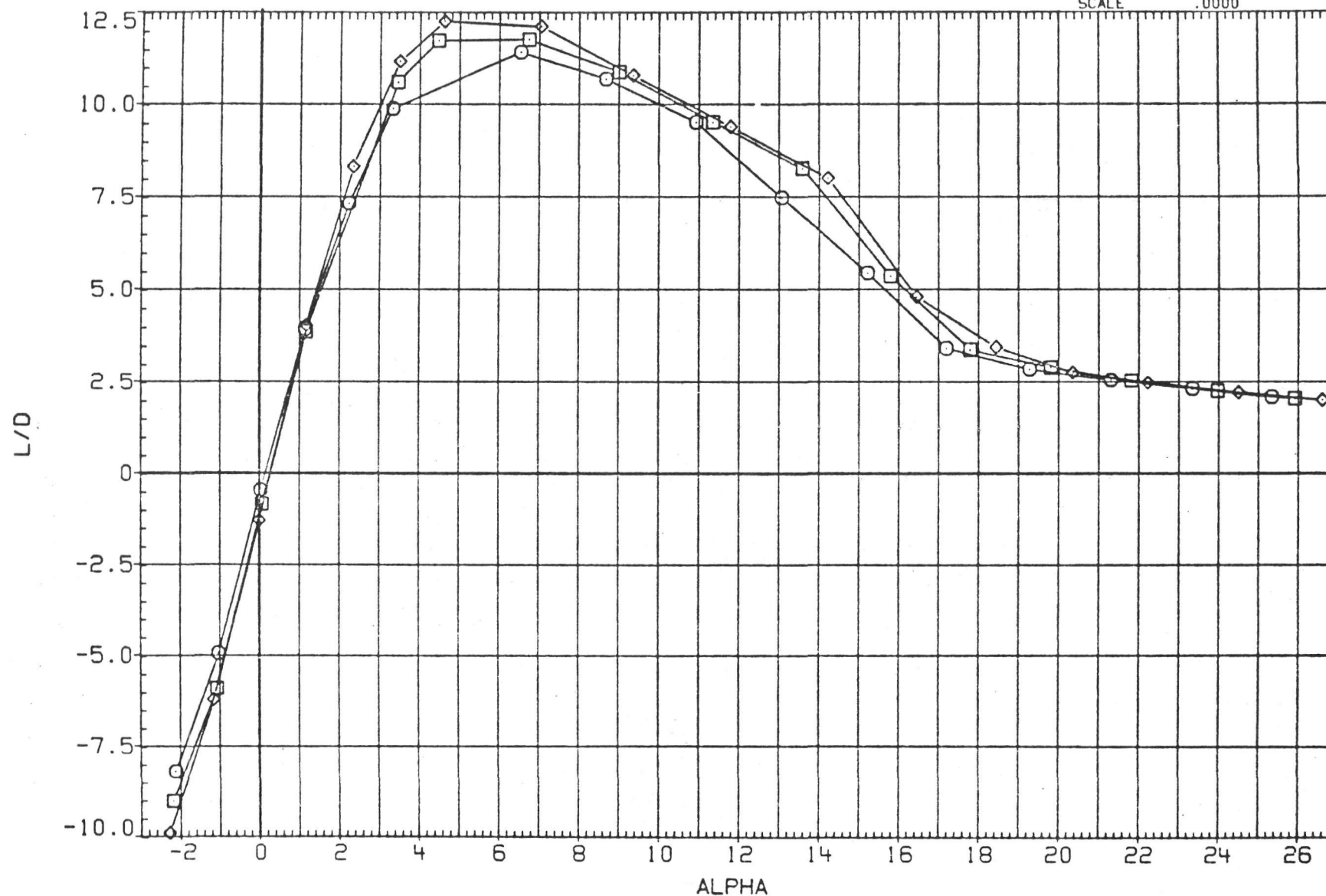


FIGURE 12. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 145

(JNC009) WING I 25-35-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES			
○	13.049		.080	LESWP	25.000	
□	19.643	FILSWP	35.000	TESWP	25.000	
◇	26.156	BETA	.000	MACH	.300	
		GRITNO	120.000			

REFERENCE INFORMATION

SREF	.0501	SO. M.
LREF	.1664	METERS
BREF	.3331	METERS
XMRP	.0845	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

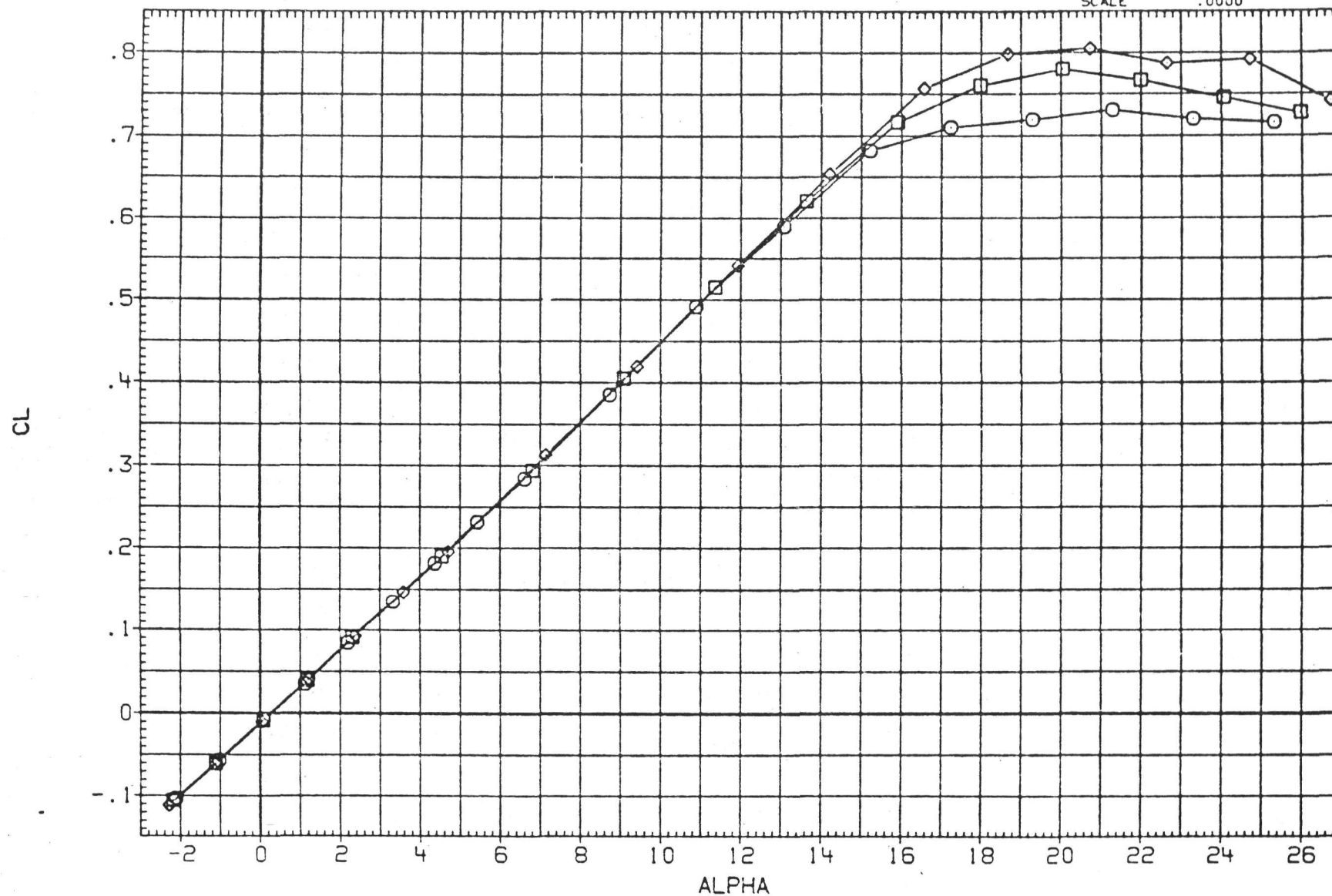


FIGURE 13. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 135

(JNC009)

WING I

25-35-0008

AMES 12-086 (LA65)

REFERENCE INFORMATION

SYMBOL RN/M

PARAMETRIC VALUES

SREF	.0501	SO. M.
LREF	.1664	METERS
BREF	.3331	METERS
XMRP	.0845	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

○

13.049

T/C

.080

LESWP

25.000

□

19.643

FILSWP

35.000

TESWP

25.000

◇

26.156

BETA

.000

MACH

.300

GRITNO

120.000

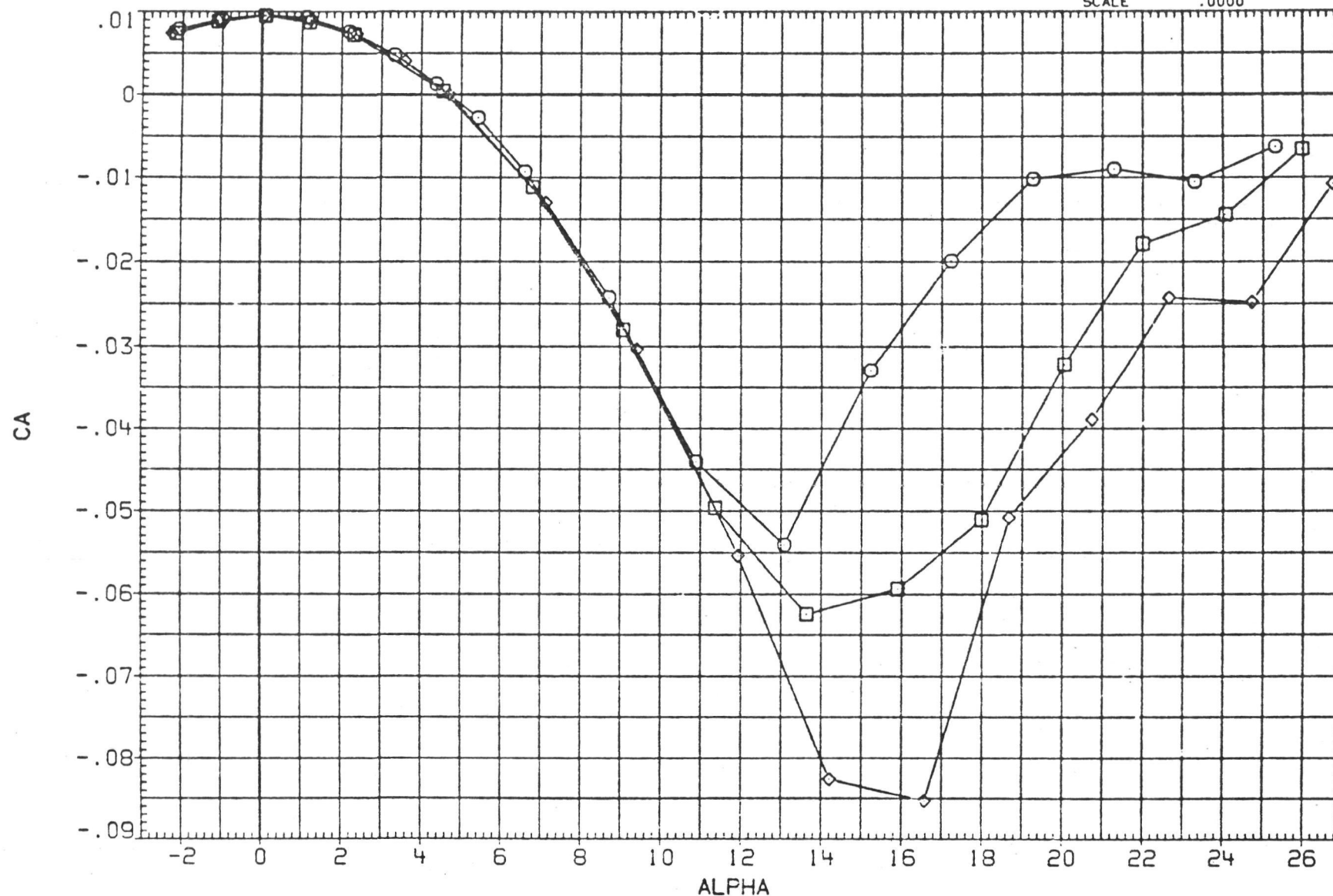


FIGURE 13. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 135

(JNC009)

WING I

25-35-0008

AMES 12-086 (LA65)

SYMBOL

RN/M

T/C

PARAMETRIC VALUES

.080 LESWP

25.000

35.000 TESWP

25.000

.000 MACH

.300

GRITNO

120.000

REFERENCE INFORMATION

SREF .0501 SQ. M.

LREF .1664 METERS

BREF .3331 METERS

XMRP .0845 M. XB

YMRP .0000 M. YB

ZMRP .0000 M. ZB

SCALE .0000

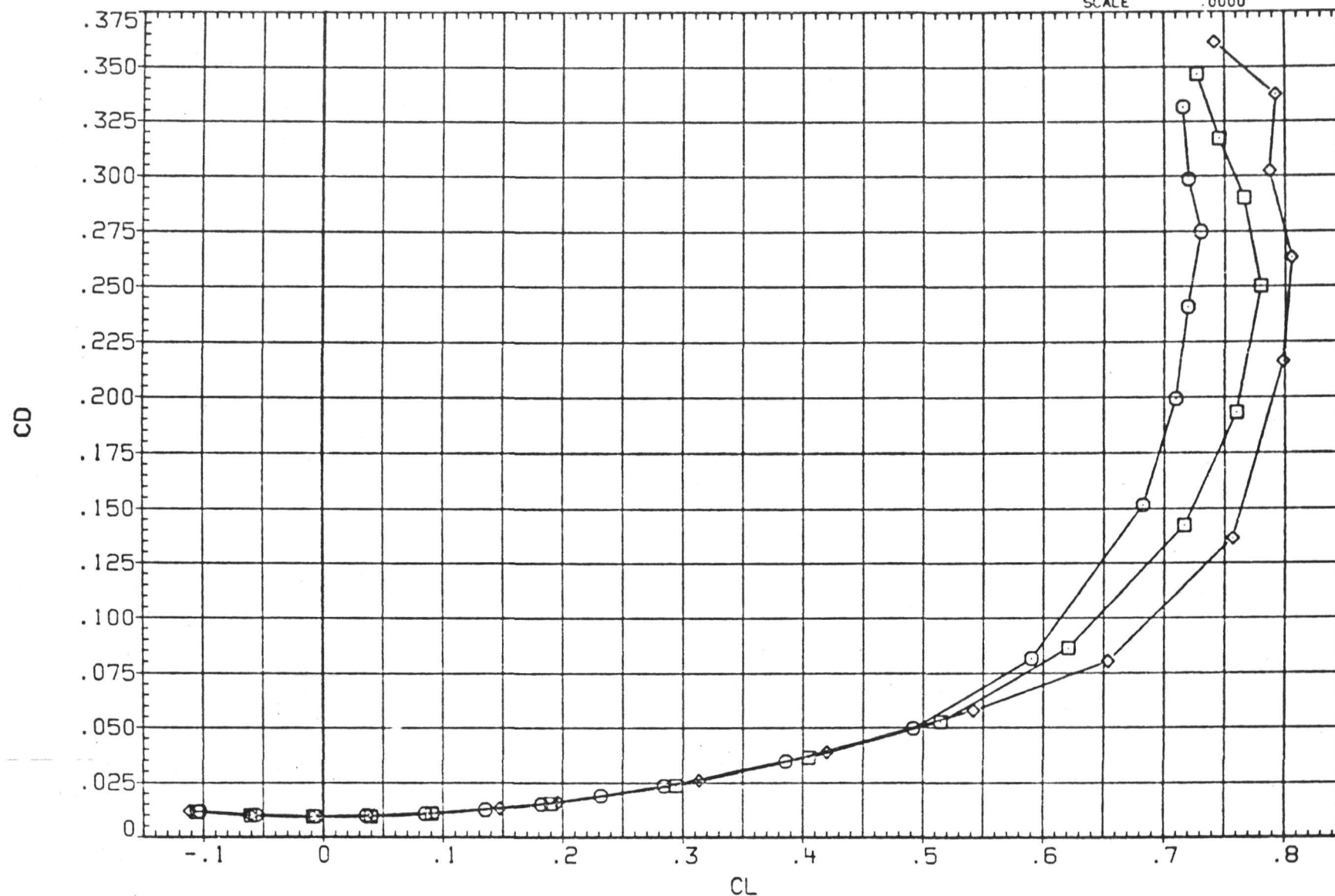


FIGURE 13. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 135

(JNC009) WING I 25-35-0008
 SYMBOL RN/M T/C LESWP 25.000
 13.049 FILSWP 35.000 TESWP 25.000
 19.643 BETA .000 MACH .300
 26.156 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0501 SQ. M.
 LREF .1664 METERS
 BREF .3331 METERS
 XMRP .0845 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

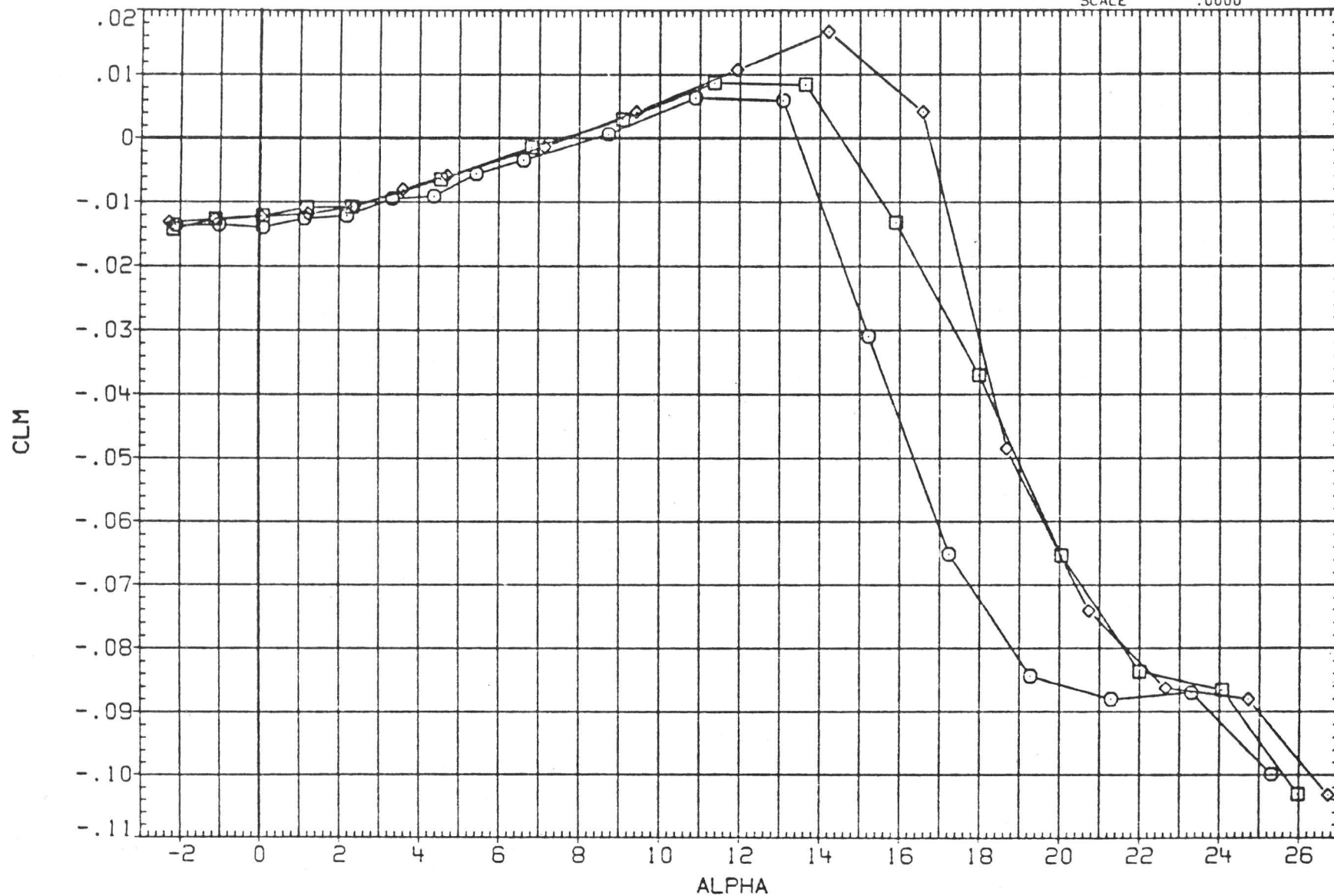


FIGURE 13. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 135

(JNC009) WING I 25-35-0008

AMES 12-086 (LA65)

SYMBOL RN/M

PARAMETRIC VALUES

REFERENCE INFORMATION

SREF	.0501	SQ. M.
LREF	.1664	METERS
BREF	.3331	METERS
XMRP	.0845	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

○	13.049	T/C	.080	LESWP	25.000
□	19.643	FILSWP	35.000	TESWP	25.000
◇	26.156	BETA	.000	MACH	.300
		GRITNO	120.000		

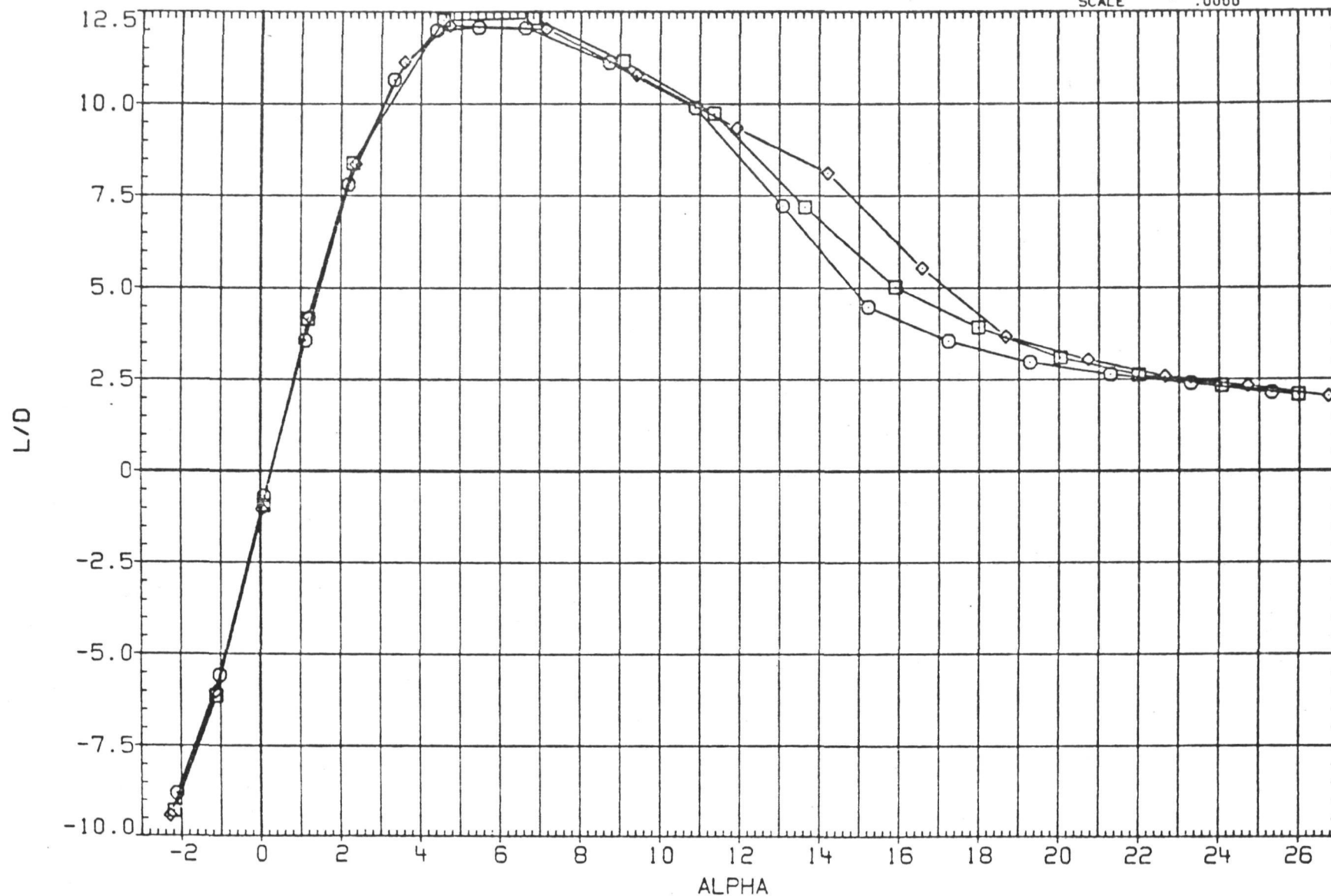


FIGURE 13. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 135

SYMBOL

RN/M

T/C

PARAMETRIC VALUES

.080

LESWP

35.000

35.000

TESWP

20.000

.000

MACH

.300

19 620

DELTA

120.000

26.094

GRITNO

REFERENCE INFORMATION

SREF

.0490

SQ. M.

LREF

.1649

METERS

BREF

.3331

METERS

XMRP

.0078

M. XB

YMRP

.0000

M. YB

ZMRP

.0000

M. ZB

SCALE

.0000

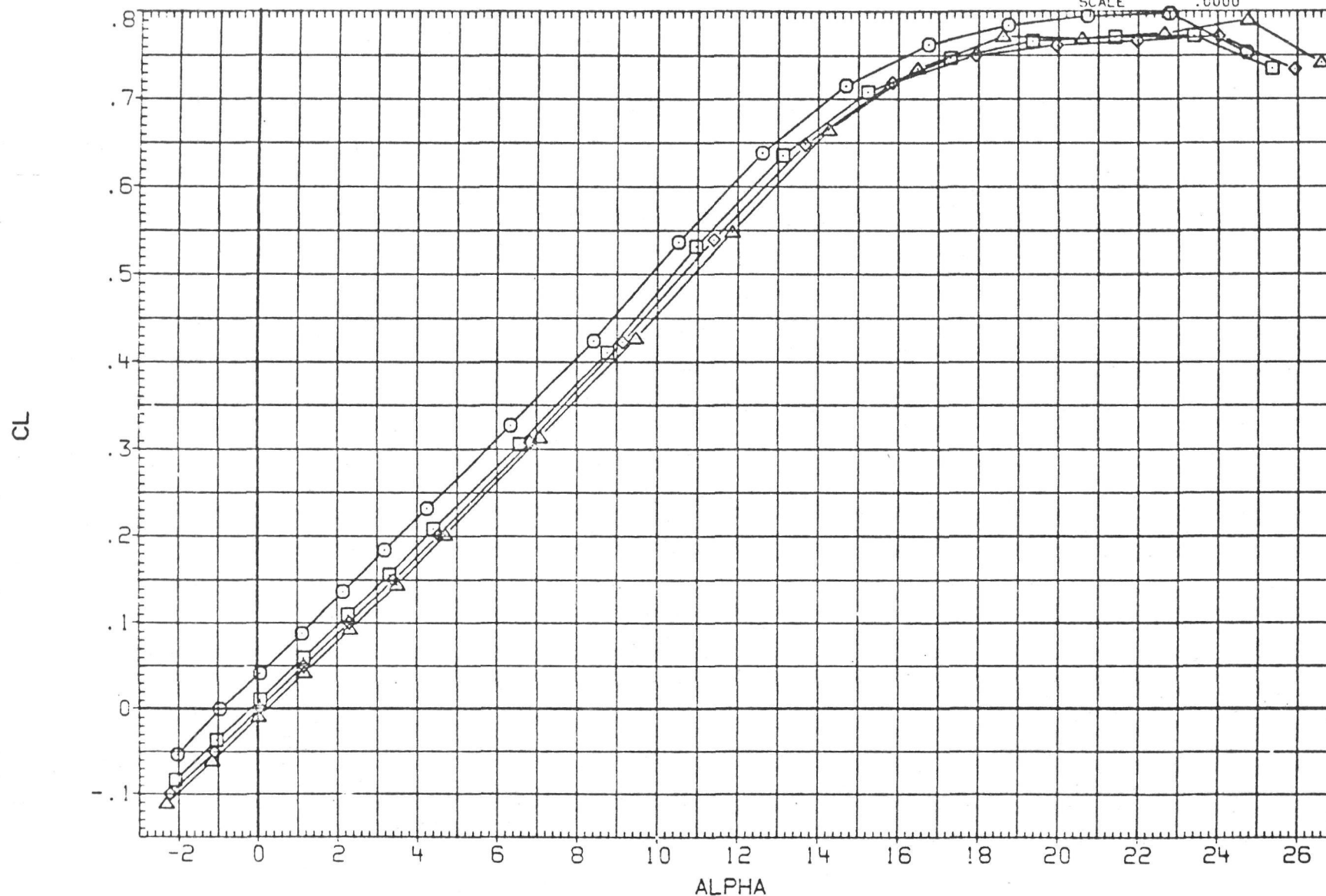


FIGURE 14. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 235
(LEADING EDGE EXTENSION OFF)

(JNC010) WING II 35-35-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES
○	6.260	T/C .080 LESWP 35.000
□	12.986	FILSWP 35.000 TESWP 20.000
◇	19.620	BETA .000 MACH .300
△	26.094	GRITNO 120.000

REFERENCE INFORMATION

SREF	.0490	SQ. M.
LREF	.1649	METERS
BREF	.3331	METERS
XMRP	.0878	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

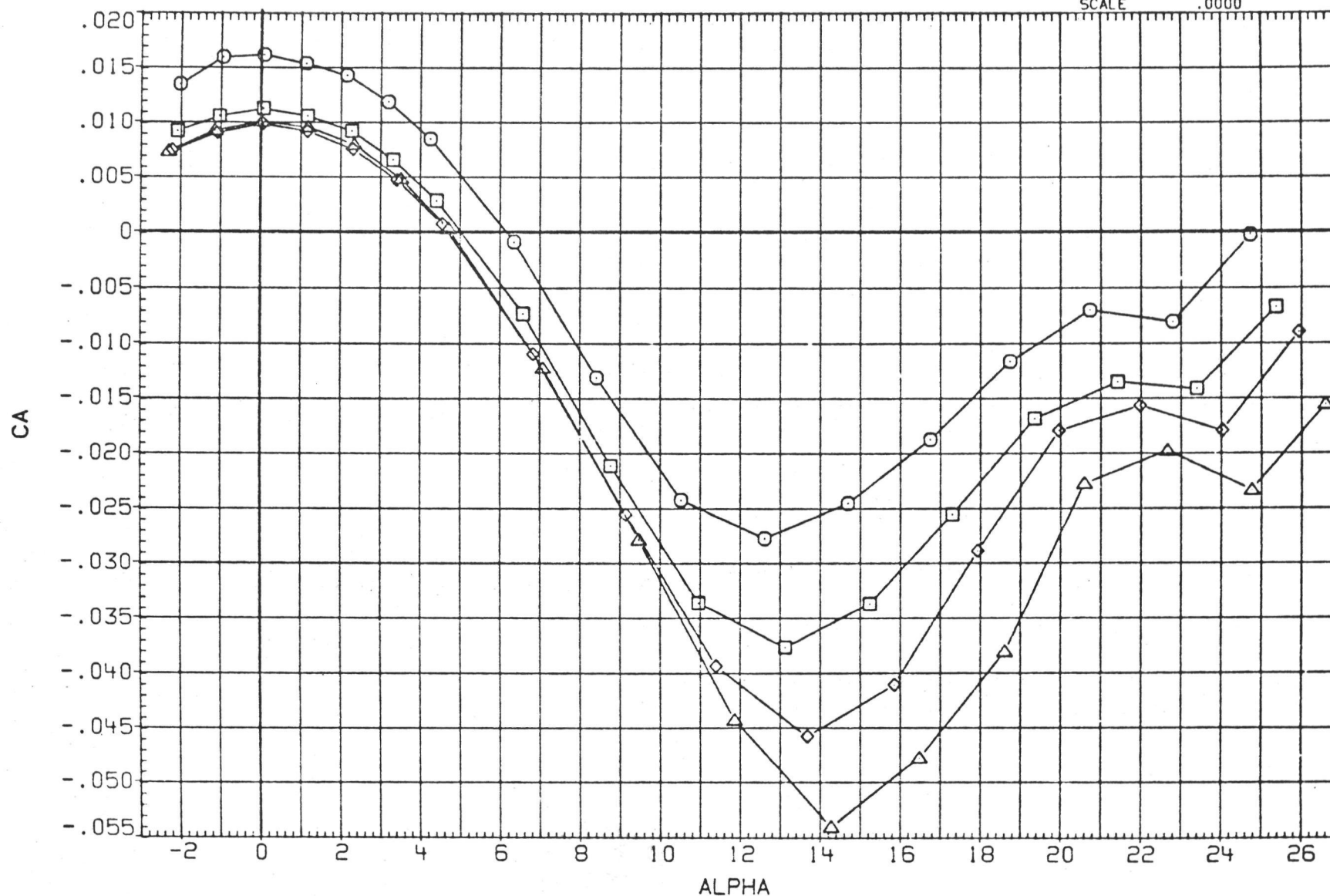


FIGURE 14. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 235
(LEADING EDGE EXTENSION OFF)

(JNC010) WING II 35-35-0008 AMES 12-086 (LA65)

SYMBOL		PARAMETRIC VALUES			
○	6.260	T/C	.080	LESWP	35.000
□	12.986	FILSWP	35.000	TESWP	20.000
◇	19.620	BETA	.000	MACH	.300
△	26.094	GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0490	SO. H.
LREF	.1649	METERS
BREF	.3331	METERS
XMRP	.0878	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

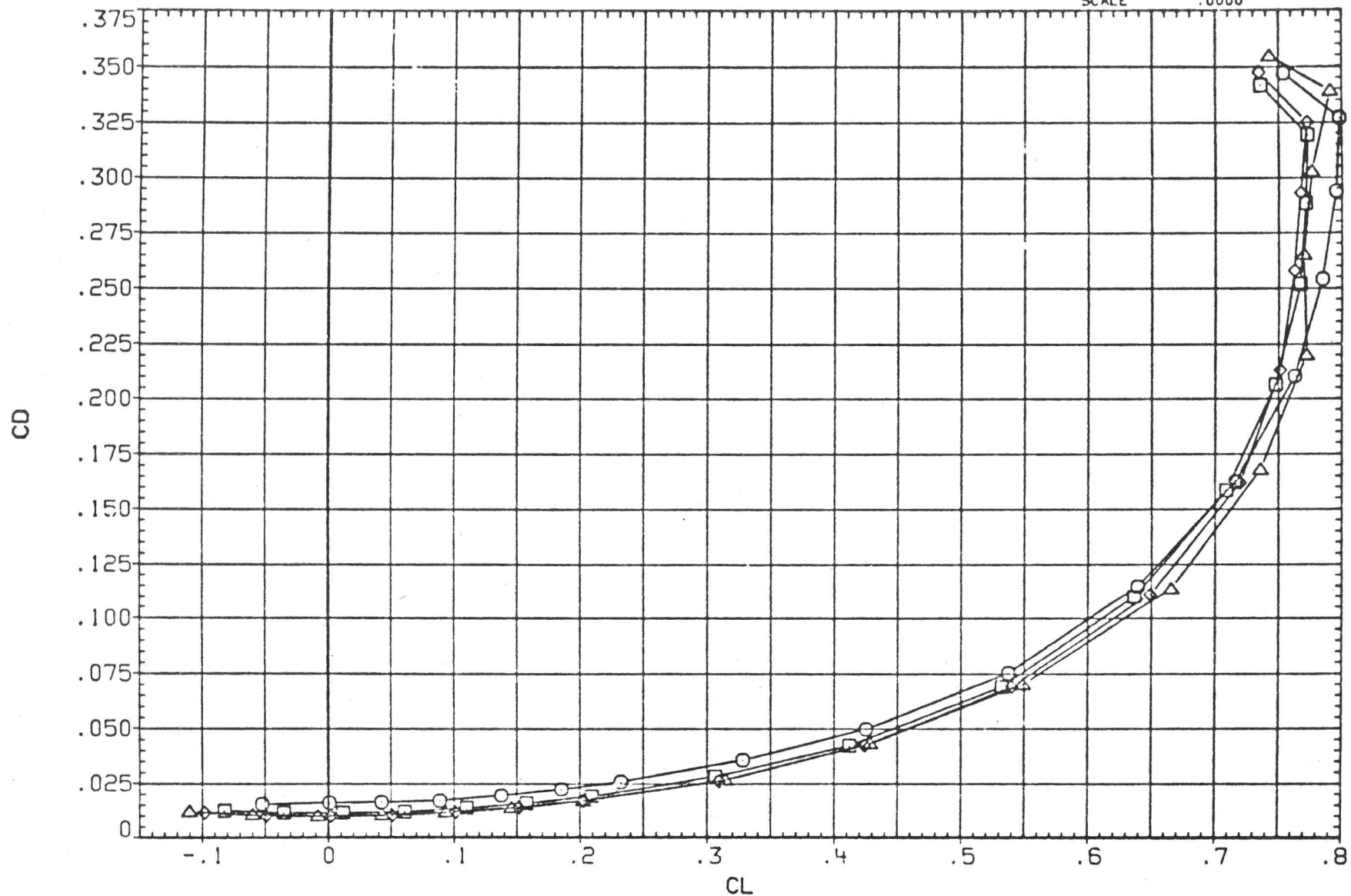


FIGURE 14. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 235
(LEADING EDGE EXTENSION OFF)

(JNC010) WING II 35-35-0008

AMES 12-086 (LA65)

REFERENCE INFORMATION

SYMBOL	RN/M	PARAMETRIC VALUES
○	6.260	T/C .080 LESHP 35.000
□	12.986	FILSWP 35.000 TESHP 20.000
◇	19.620	BETA .000 MACH .300
△	26.094	GRITNO 120.000

SREF	.0490	SO. M.
LREF	.1649	METERS
BREF	.3331	METERS
XMRP	.0878	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

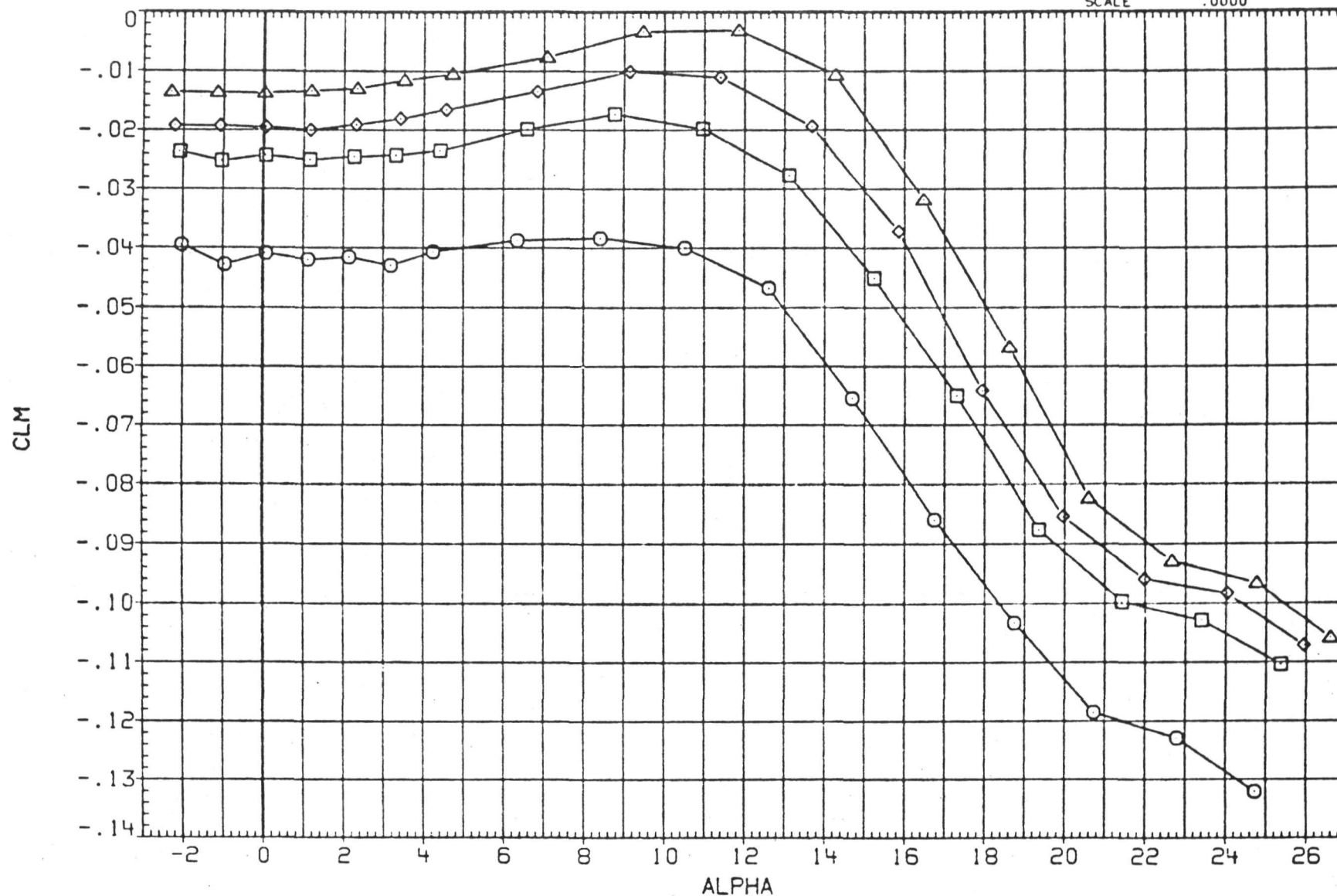


FIGURE 14. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 235
(LEADING EDGE EXTENSION OFF)

SYMBOL RN/M

PARAMETRIC VALUES

SREF	.0490	SO. M.
LREF	.1649	METERS
BREF	.3331	METERS
XMRP	.0878	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

○
□
◇
△

6.260	T/C	.080	LESWP	35.000
12.986	FILSWP	35.000	TESWP	20.000
19.620	BETA	.000	MACH	.300
26.094	GRITNO	120.000		

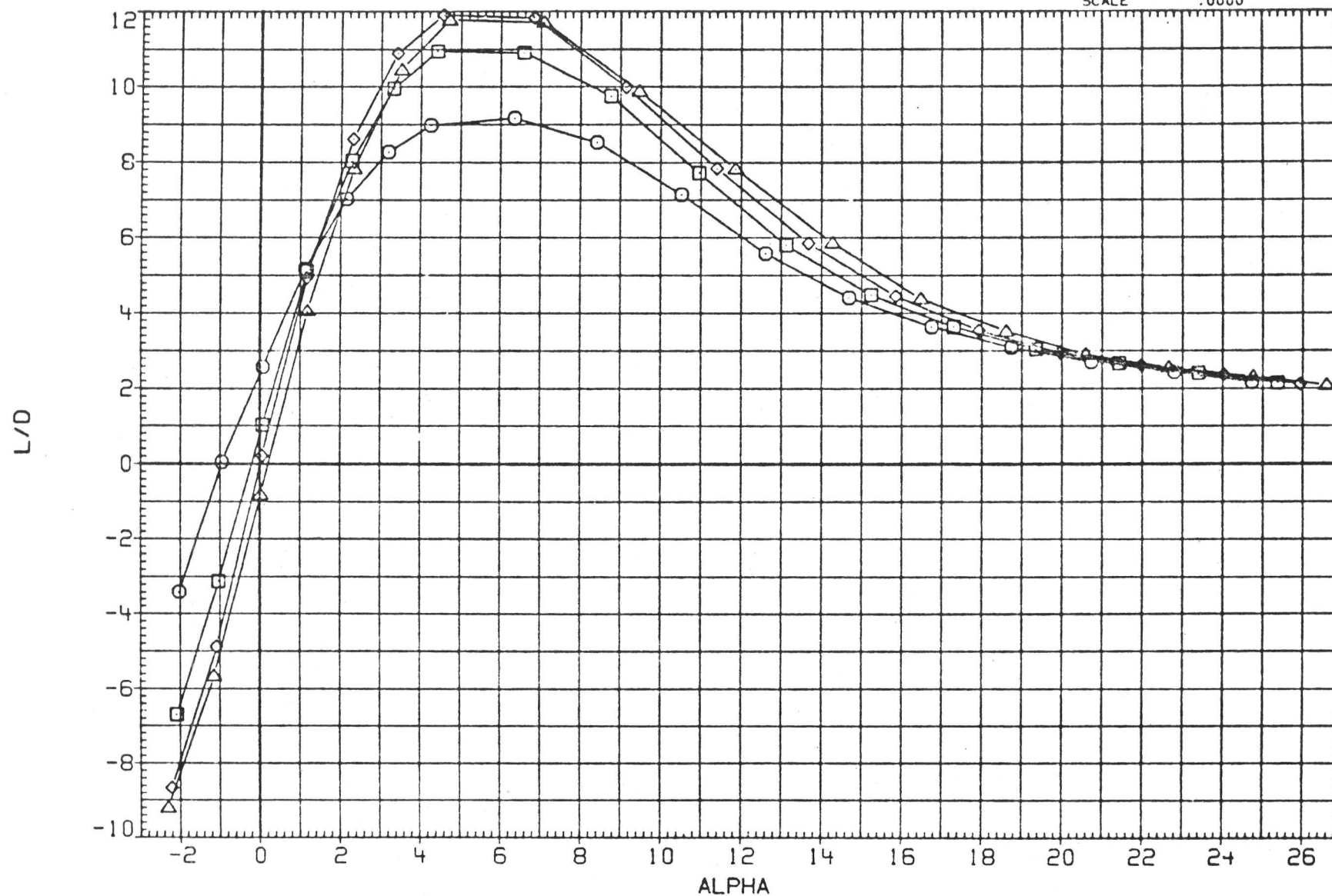


FIGURE 14. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 235
(LEADING EDGE EXTENSION OFF)

(JNC011) WING II 35-80-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	12.917	T/C	.080	LESWP	35.000
□	19.604	FILSWP	80.000	TESWP	20.000
◇	26.002	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0723	SQ. M.
LREF	.3215	METERS
BREF	.3331	METERS
XMRP	.3162	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

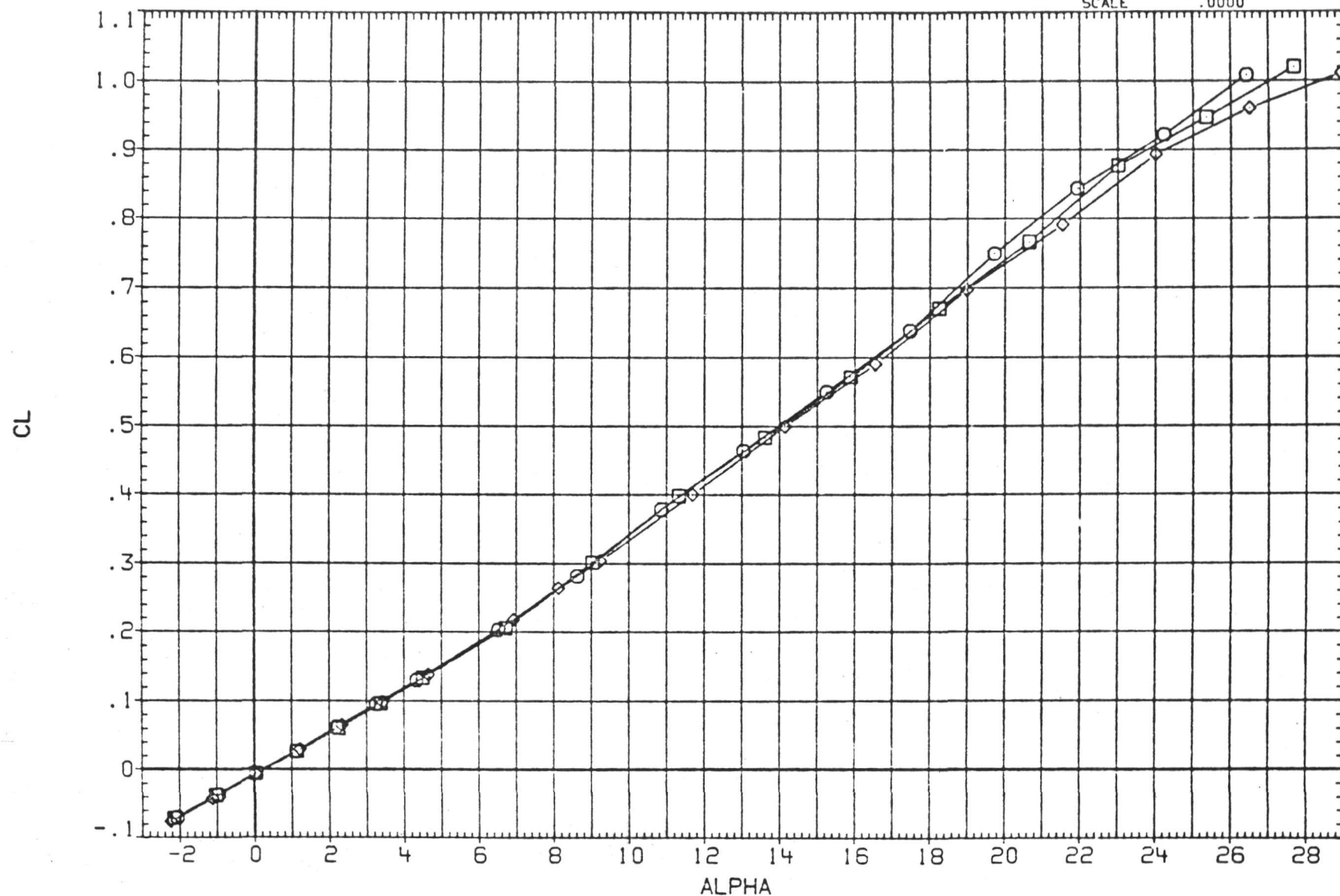


FIGURE 15. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 280

(JNC011) WING II 35-80-0008 AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES	LESWP	TESWP	MACH
○	12.917		.080	35.000		
□	19.604	FILSWP	80.000	20.000		
◇	26.002	BETA	.000			
		GRITNO	120.000			

REFERENCE INFORMATION

SREF	.0723	SO. M.
LREF	.3215	METERS
BREF	.3331	METERS
XMRP	.3162	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

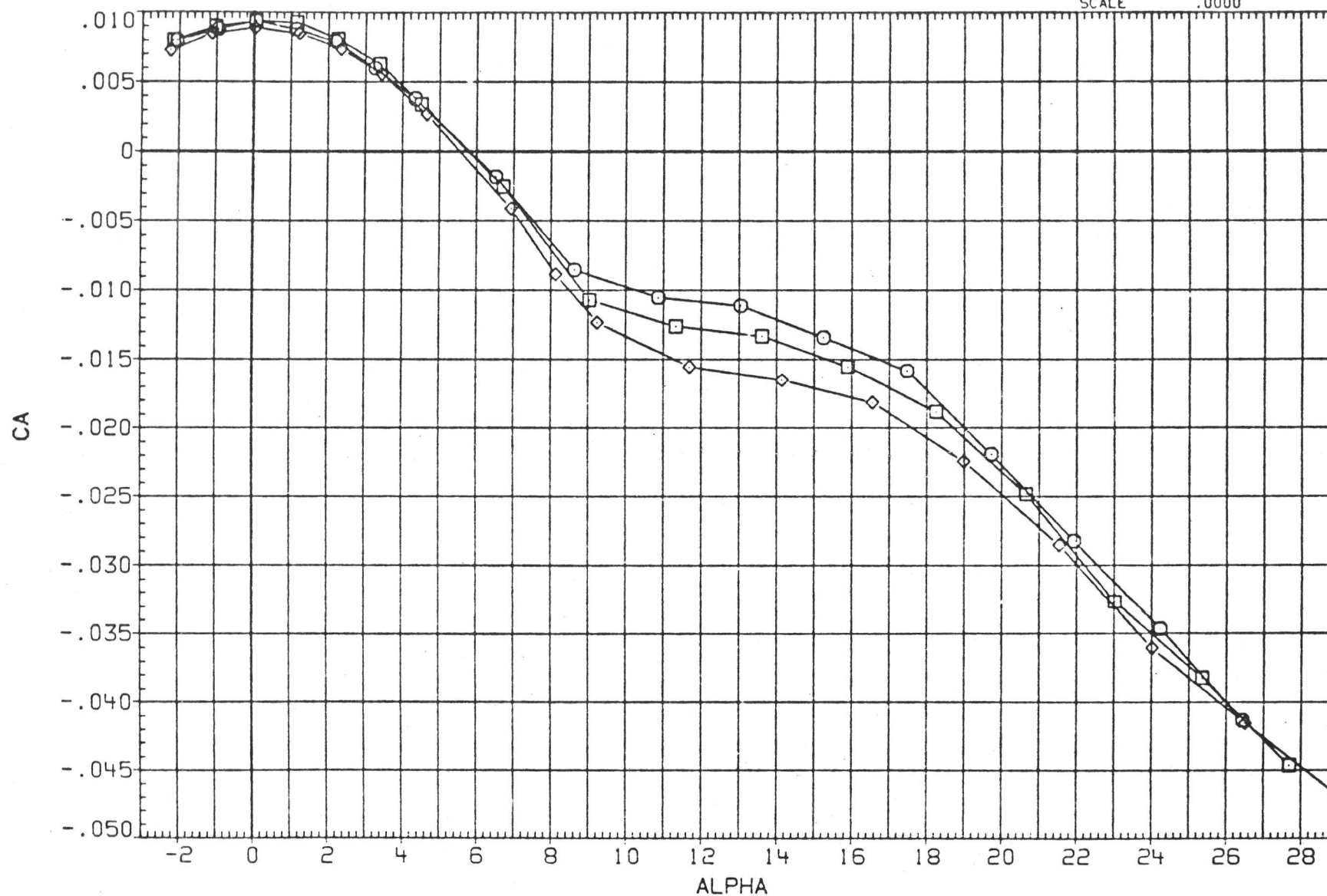


FIGURE 15. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 280

(JNC011) WING II 35-80-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 12.917 FILSWP .080 LESWP 35.000
 □ 19.604 BETA .000 TESWP 20.000
 ◇ 26.002 GRITNO 120.000 MACH .300

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0723 SQ. M.
 LREF .3215 METERS
 BREF .3331 METERS
 XMRP .3162 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

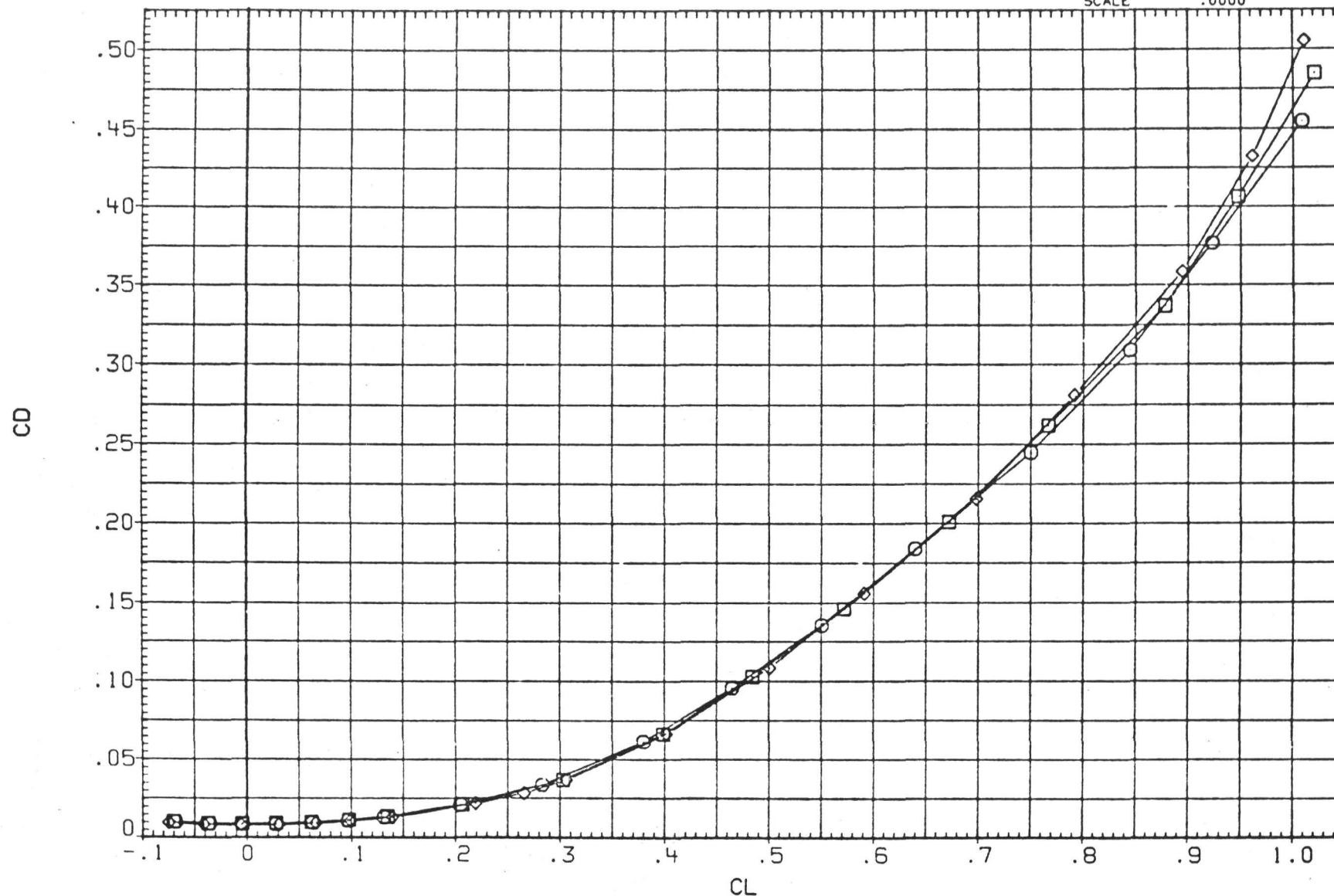


FIGURE 15. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 280

(JNC011) WING II 35-80-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 12.917 .080 LESWP 35.000
 □ 19.604 FILSWP 80.000 TESWP 20.000
 ◇ 26.002 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0723 SQ. M.
 LREF .3215 METERS
 BREF .3331 METERS
 XMRP .3162 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

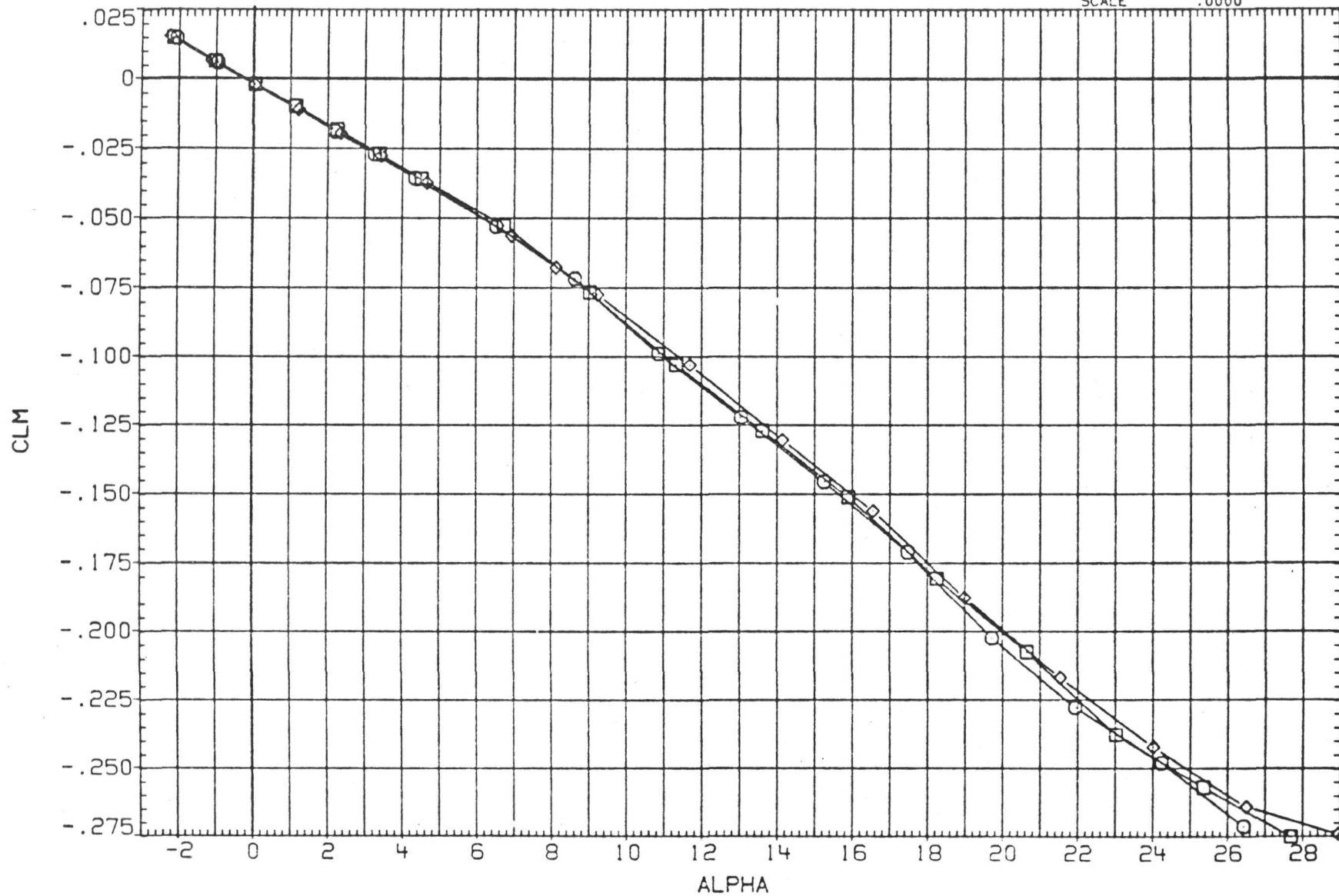


FIGURE 15. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 280

(JNC011) WING II 35-80-0008

AMES 12-086 (LA65)

REFERENCE INFORMATION

SYMBOL	RN/M	T/C	PARAMETRIC VALUES	LESWP	TESWP	MACH
○	12.917	FILSWP	.080	35.000	20.000	
□	19.604	BETA	80.000			
◇	26.002	GRITNO	.000			.300

SREF	.0723	SO. H.
LREF	.3215	METERS
BREF	.3331	METERS
XMRP	.3162	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

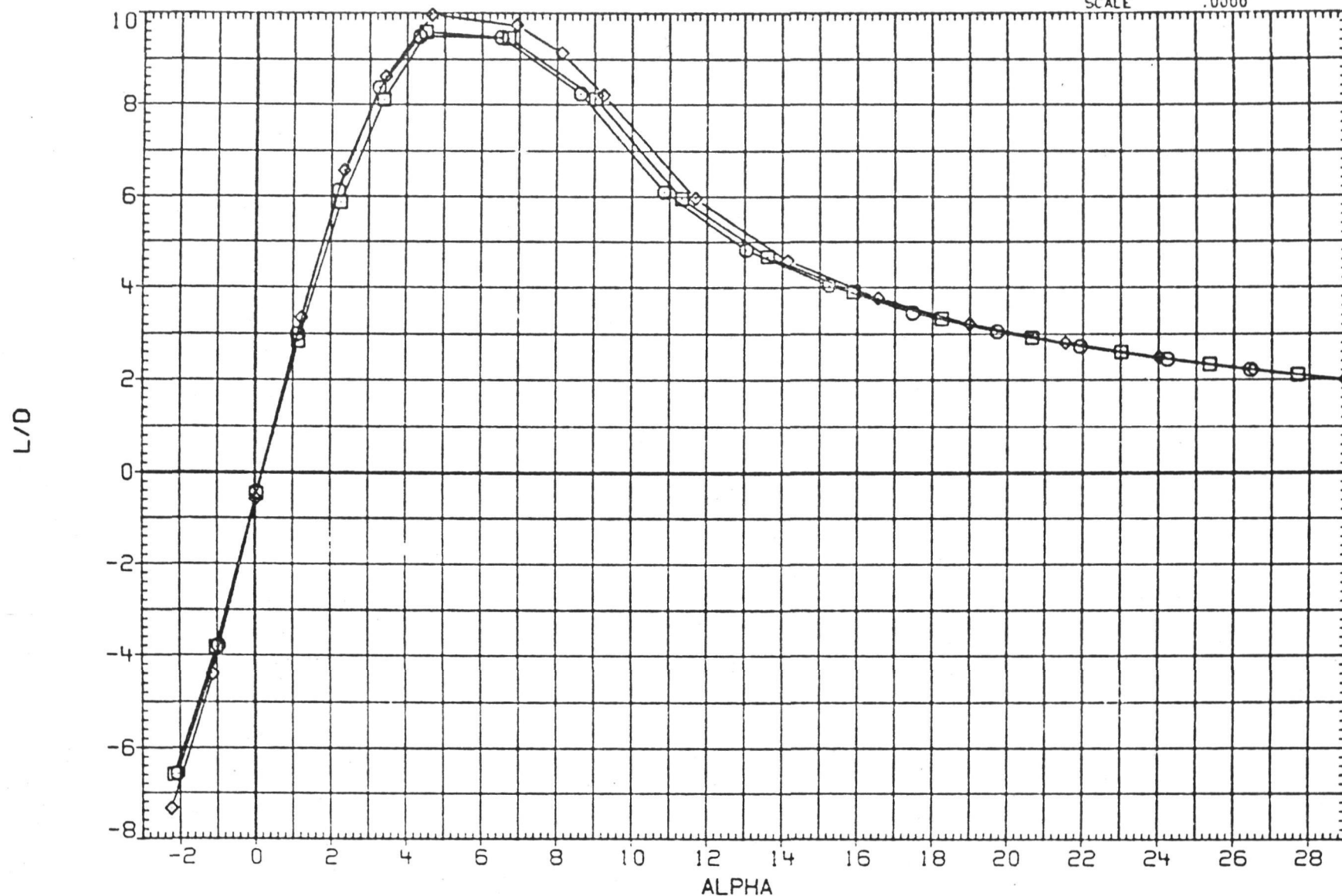


FIGURE 15. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 280

(JNC012) WING II 35-75-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 13.081 LESWP 35.000
 □ 19.309 FILSWP 75.000
 ◇ 26.222 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0634 SQ. M.
 LREF .2542 METERS
 BREF .3331 METERS
 XMRP .2322 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

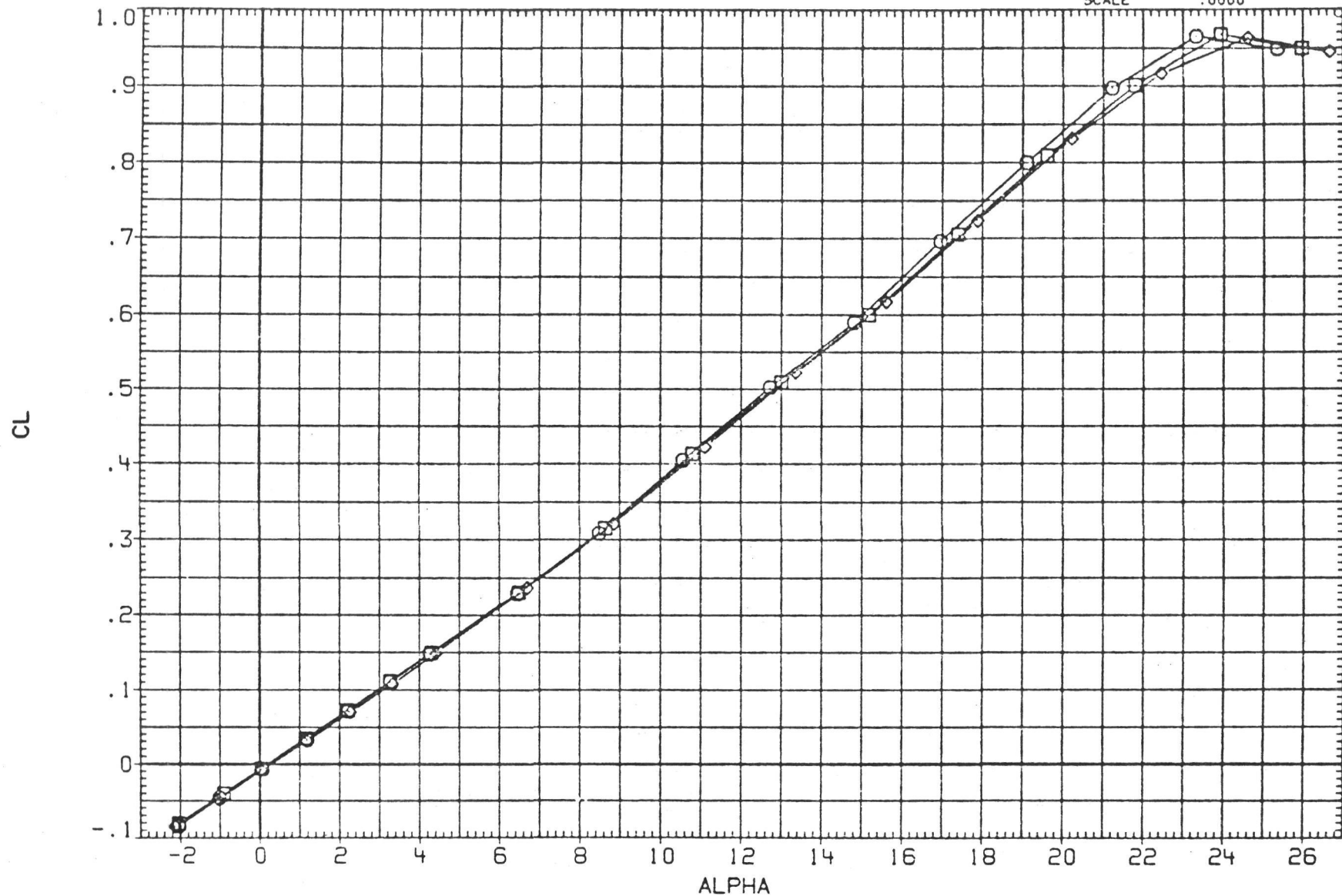


FIGURE 16. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 275

(JNC012) WING II 35-75-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 13.081 .080 LESWP 35.000
 □ 19.309 75.000 TESWP 20.000
 ◇ 26.222 .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0634 SQ. M.
 LREF .2542 METERS
 BREF .3331 METERS
 XMRP .2322 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

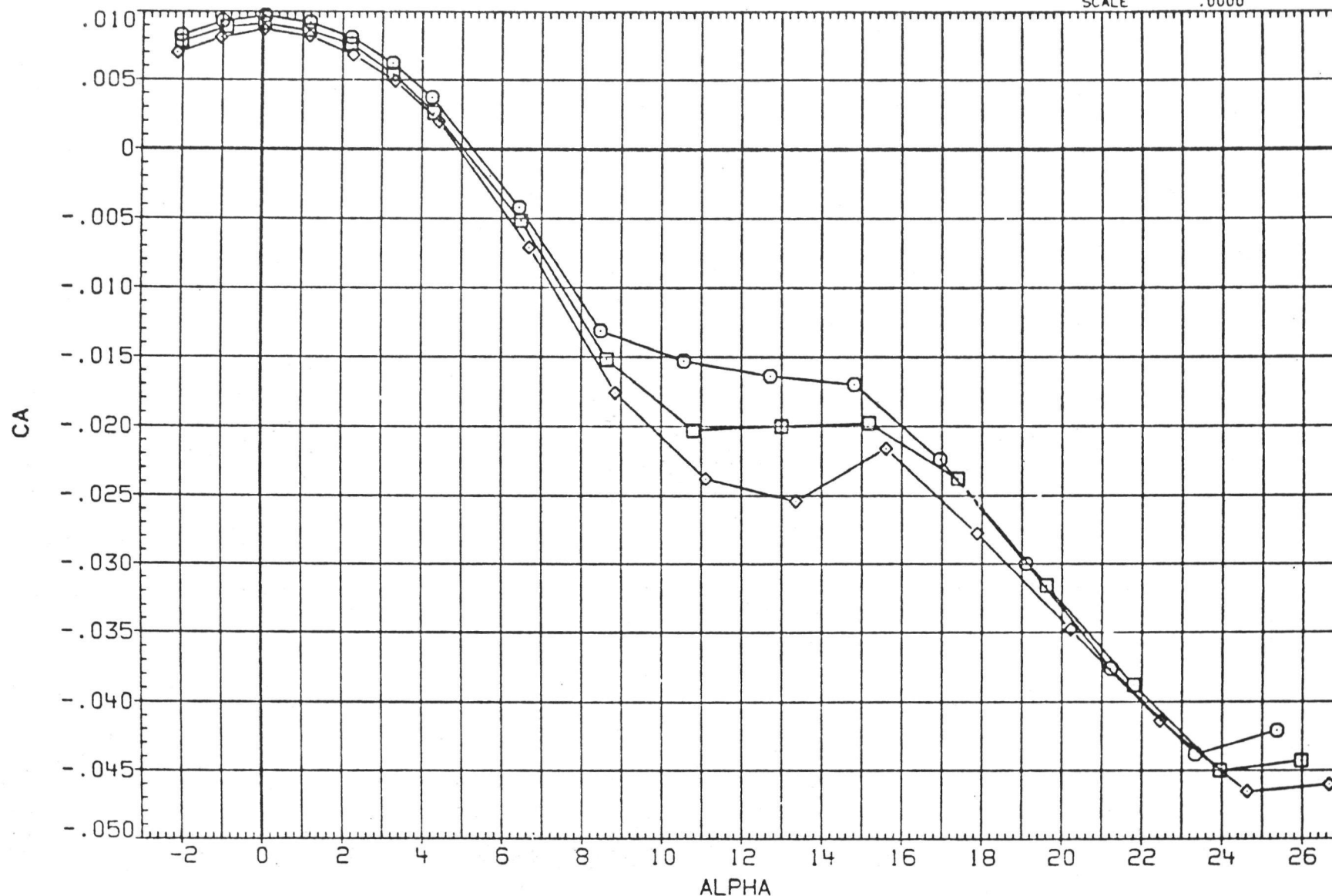


FIGURE 16. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 275

(JNC012) WING II 35-75-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 13.081 FILSWP .080 LESWP 35.000
 □ 19.309 BETA 75.000 TESWP 20.000
 ◇ 26.222 GRITNO 120.000 MACH .300

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0634 SQ. M.
 LREF .2542 METERS
 BREF .3331 METERS
 XMRP .2322 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

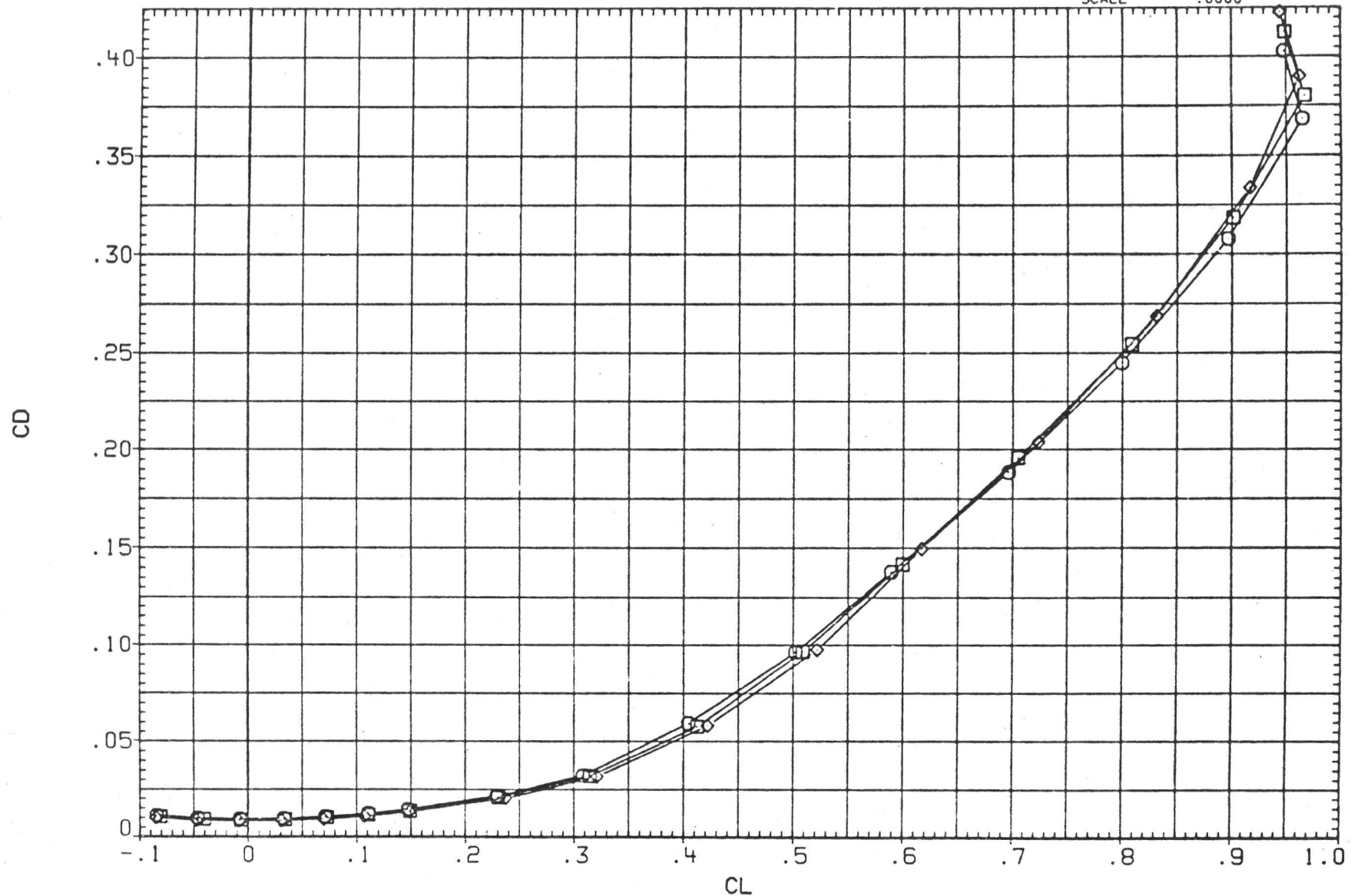


FIGURE 16. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 275

(JNC012) WING II 35-75-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES		
○	13.081	.080	LESWP	35.000	
□	19.309	75.000	TESWP	20.000	
◇	26.222	.000	MACH	.300	
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0634	SQ. M.
LREF	.2542	METERS
BREF	.3531	METERS
XMRP	.2322	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

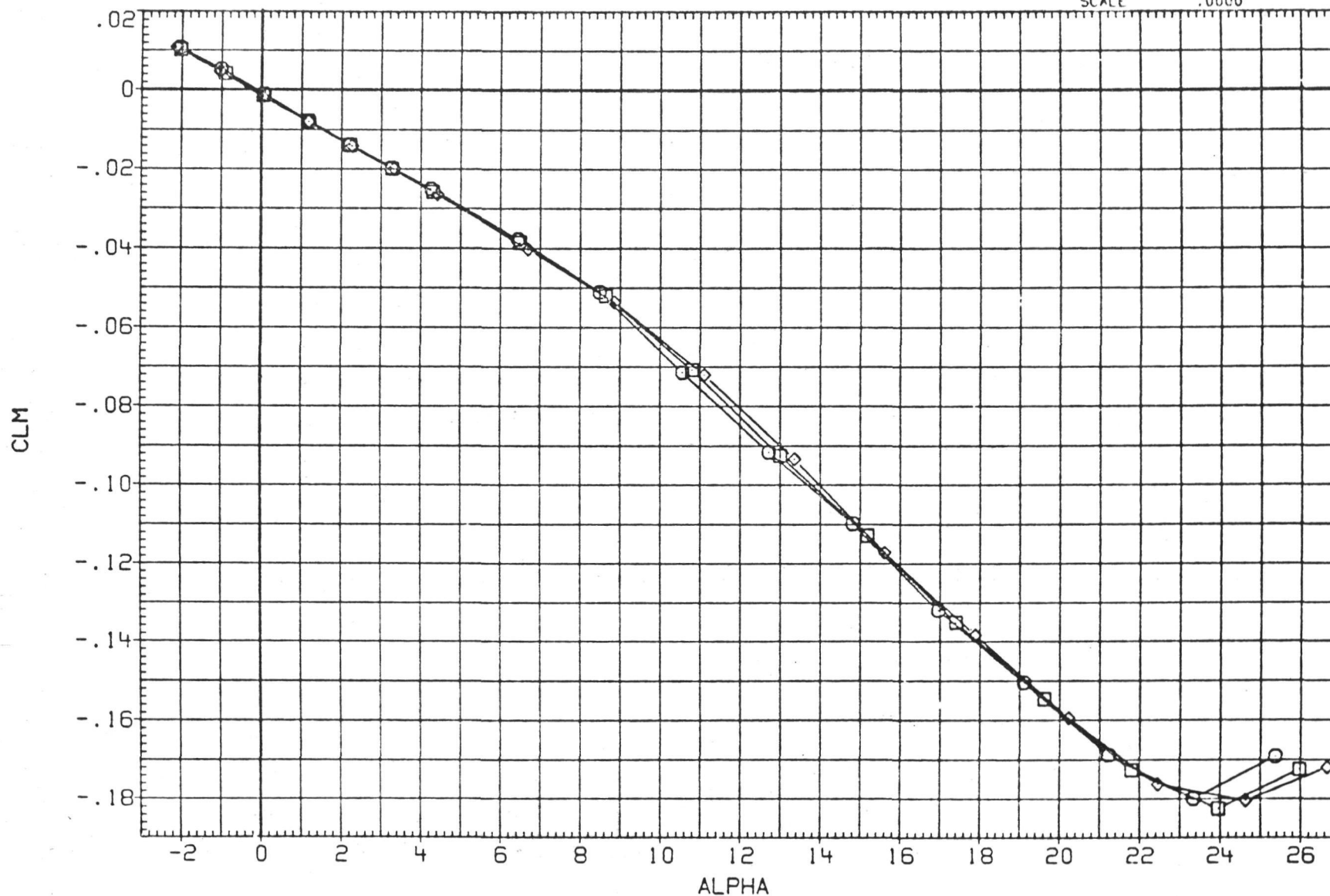


FIGURE 16. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 275

SYMBOL

RN/M

PARAMETRIC VALUES

○
□
◇

13.081
19.309
26.222

T/C
FILSWP
BETA
GRITNO

.080
75.000
.000
120.000

LESWP
TESWP
MACH

35.000
20.000
.300

SREF .0634 SQ. M.
LREF .2542 METERS
BREF .3331 METERS
XMRP .2322 M. XB
YMRP .0000 M. YB
ZMRP .0000 M. ZB
SCALE .0000

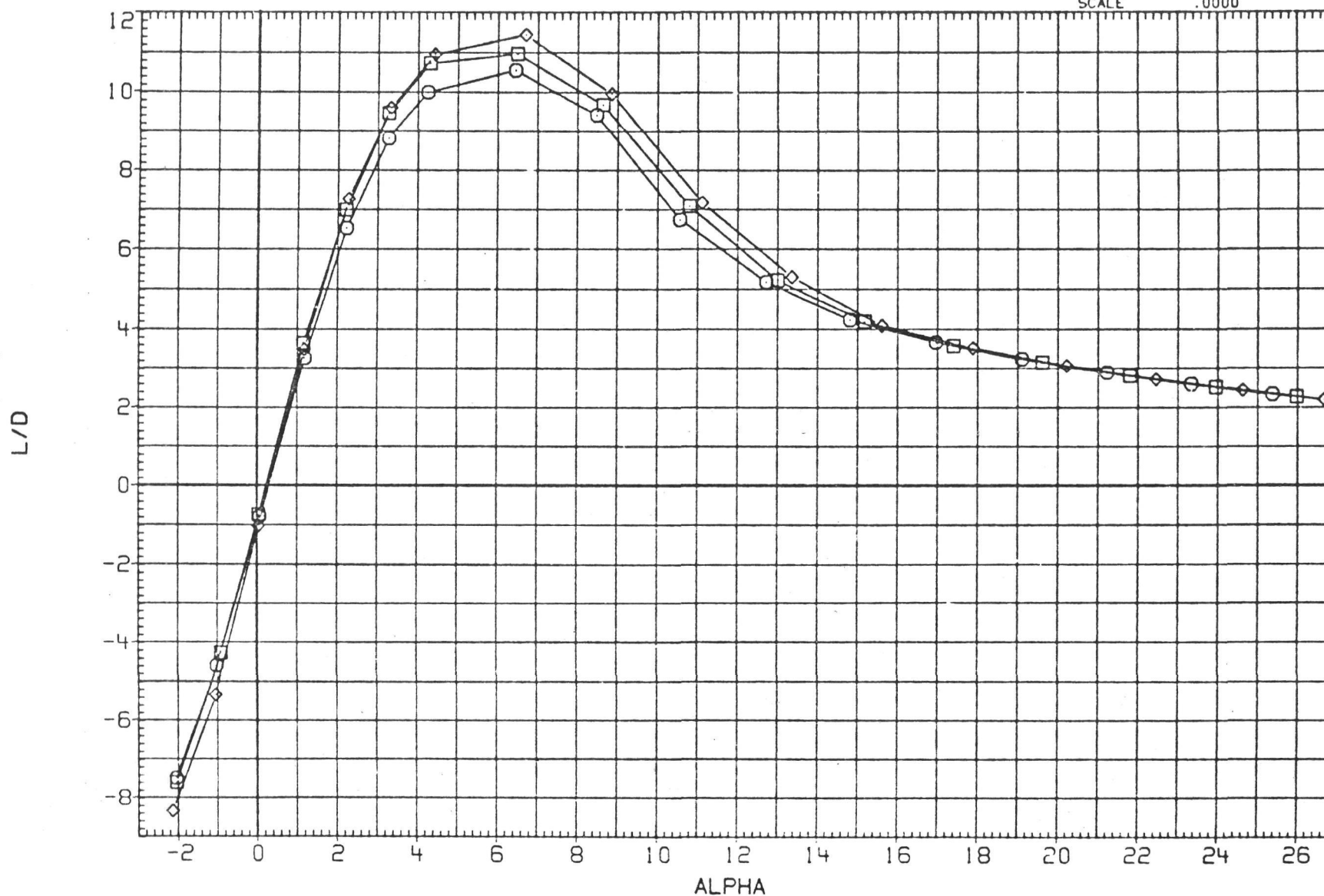


FIGURE 16. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 275

(JNC013) WING II 35-70-0008

AMES 12-086 (LA65)

REFERENCE INFORMATION

SYMBOL	RN/M	T/C	PARAMETRIC VALUES		
○	13.078	.080	LESWP	35.000	
□	19.512	70.000	TESWP	20.000	
◇	26.251	.000	MACH	.300	
		GRITNO	120.000		

SREF	.0586	SQ. M.
LREF	.2225	METERS
BREF	.3331	METERS
XMRP	.1875	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

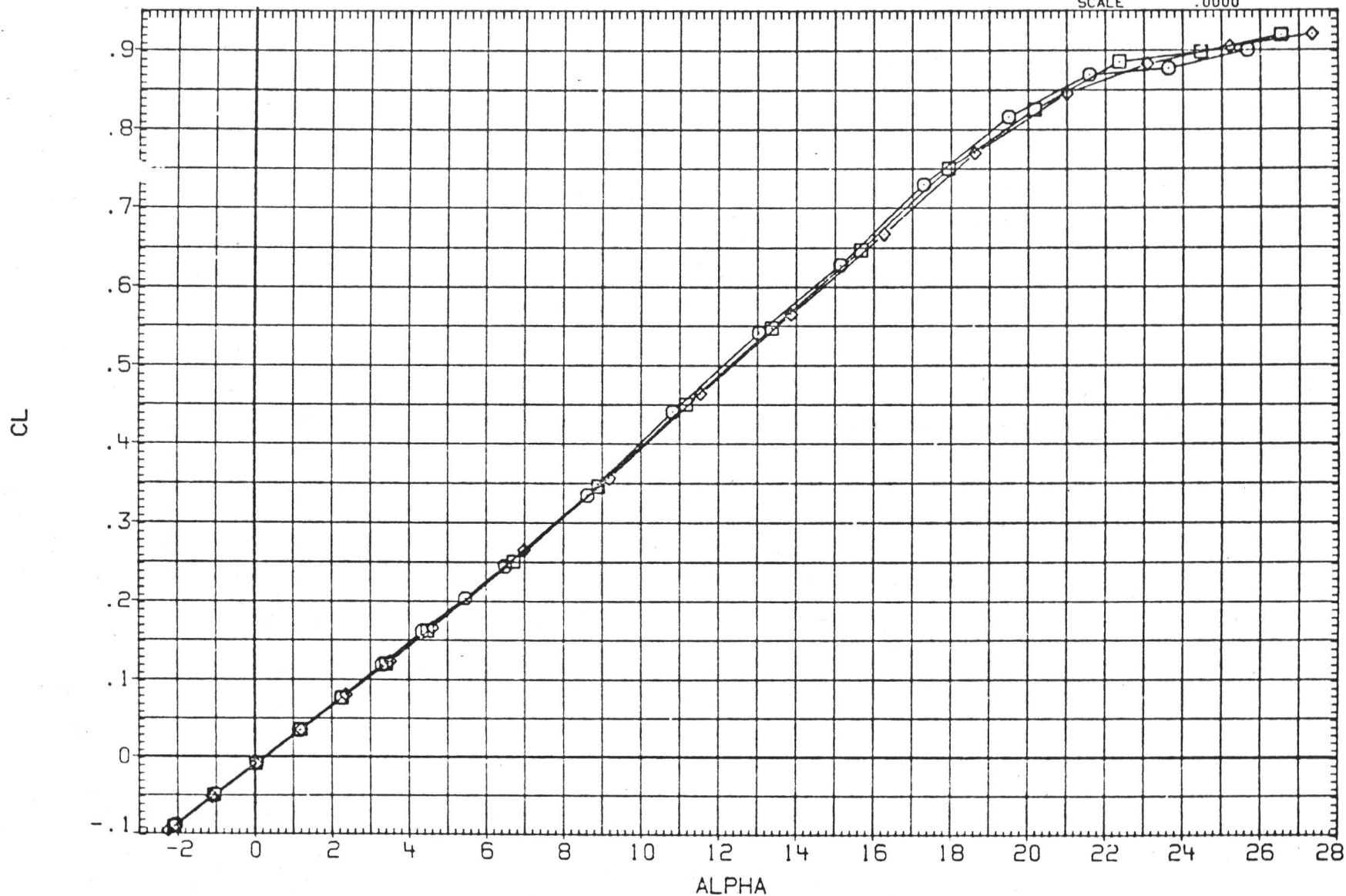


FIGURE 17. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 270

SYMBOL		RN/M	PARAMETRIC VALUES			
○		13.078	T/C	.090	LESWP	35.000
□		19.512	FILSWP	70.000	TESWP	20.000
◇		26.251	BETA	.000	MACH	.300
			GRITNO	120.000		

REFERENCE INFORMATION	
SREF	.0586 SQ. M.
LREF	.2225 METERS
BREF	.3331 METERS
XMRP	.1875 M. XB
YMRP	.0000 M. YB
ZMRP	.0000 M. ZB
SCALE	.0000

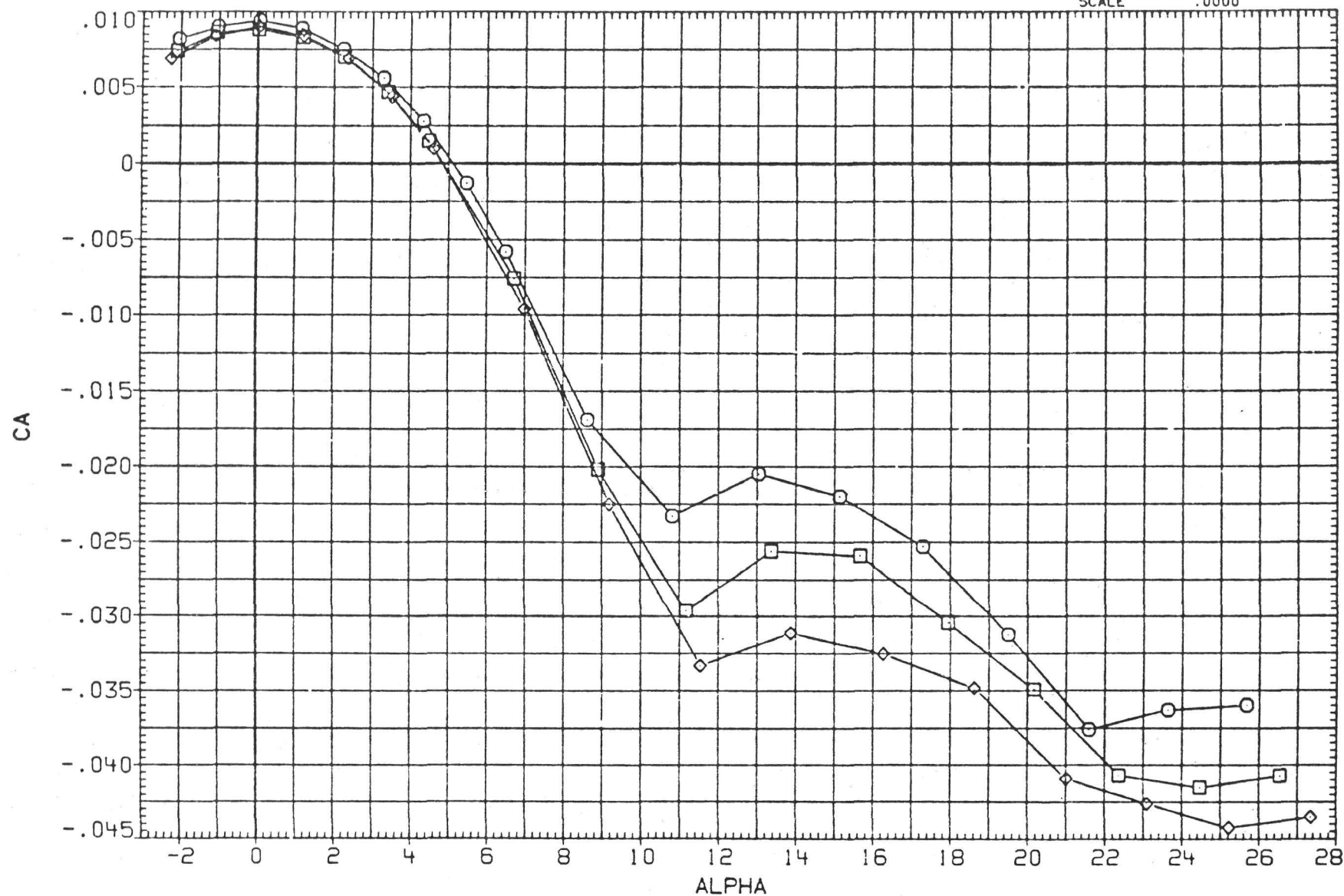


FIGURE 17. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 270

C-2

(JNC013) WING II 35-70-0008

SYMBOL	RN/M	T/C	PARAMETRIC VALUES		
○	13.078		.080	LESWP	35.000
□	19.512	FILSWP	70.000	TESWP	20.000
◇	26.251	BETA	.000	MACH	.300
		GRITNO	120.000		

AMES 12-086 (LA65)

REFERENCE INFORMATION

SPEF	.0586	SQ. M.
LREF	.2225	METERS
BREF	.3331	METERS
XMRP	.1875	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

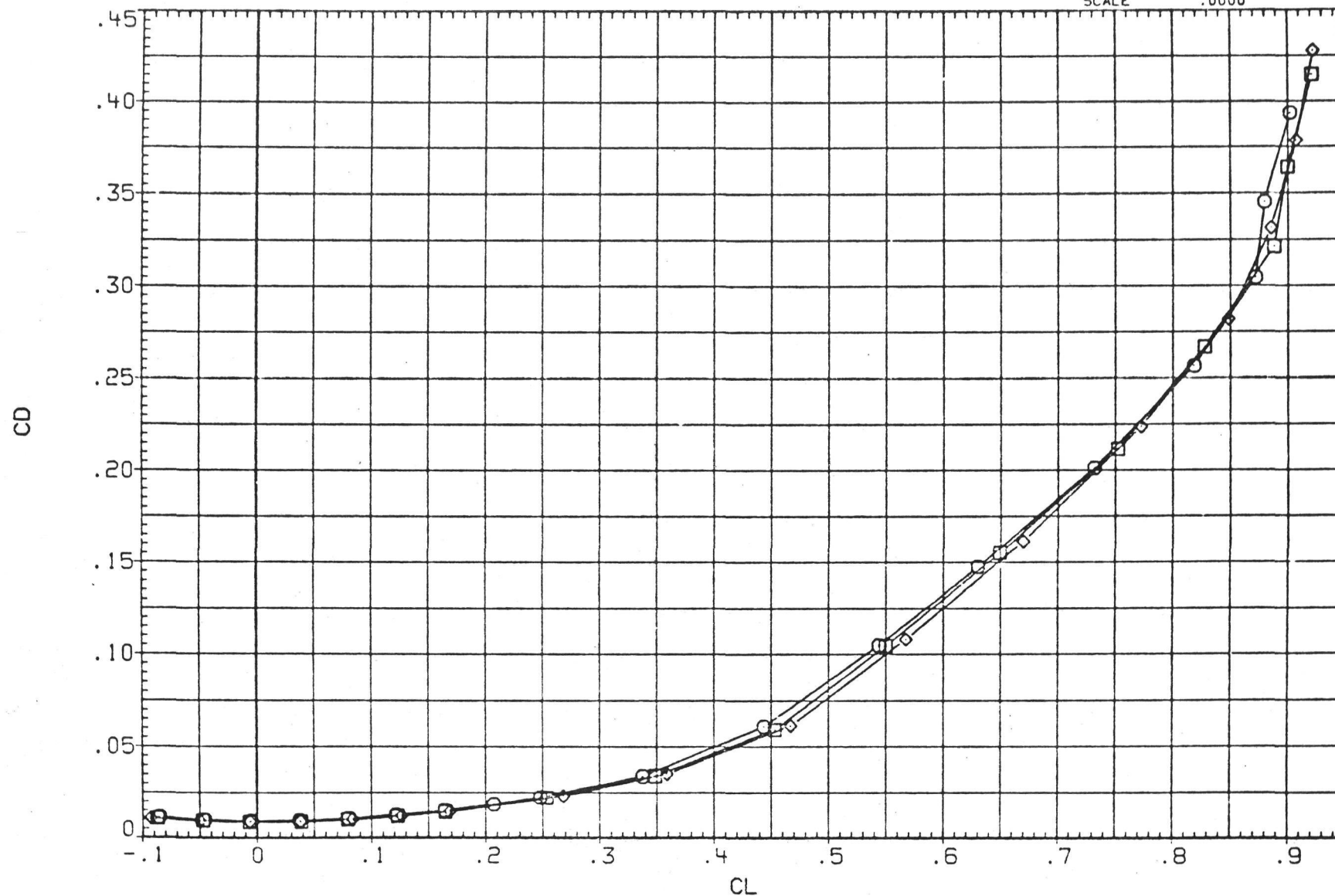


FIGURE 17. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 270

SYMBOL	RN/M	PARAMETRIC VALUES			
○	13.078	T/C	.080	LESWP	35.000
□	19.512	F/LSWP	70.000	TESWP	20.000
◇	26.251	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION		
SREF	.0586	SQ. M.
LREF	.2225	METERS
BREF	.3331	METERS
XMRP	.1875	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

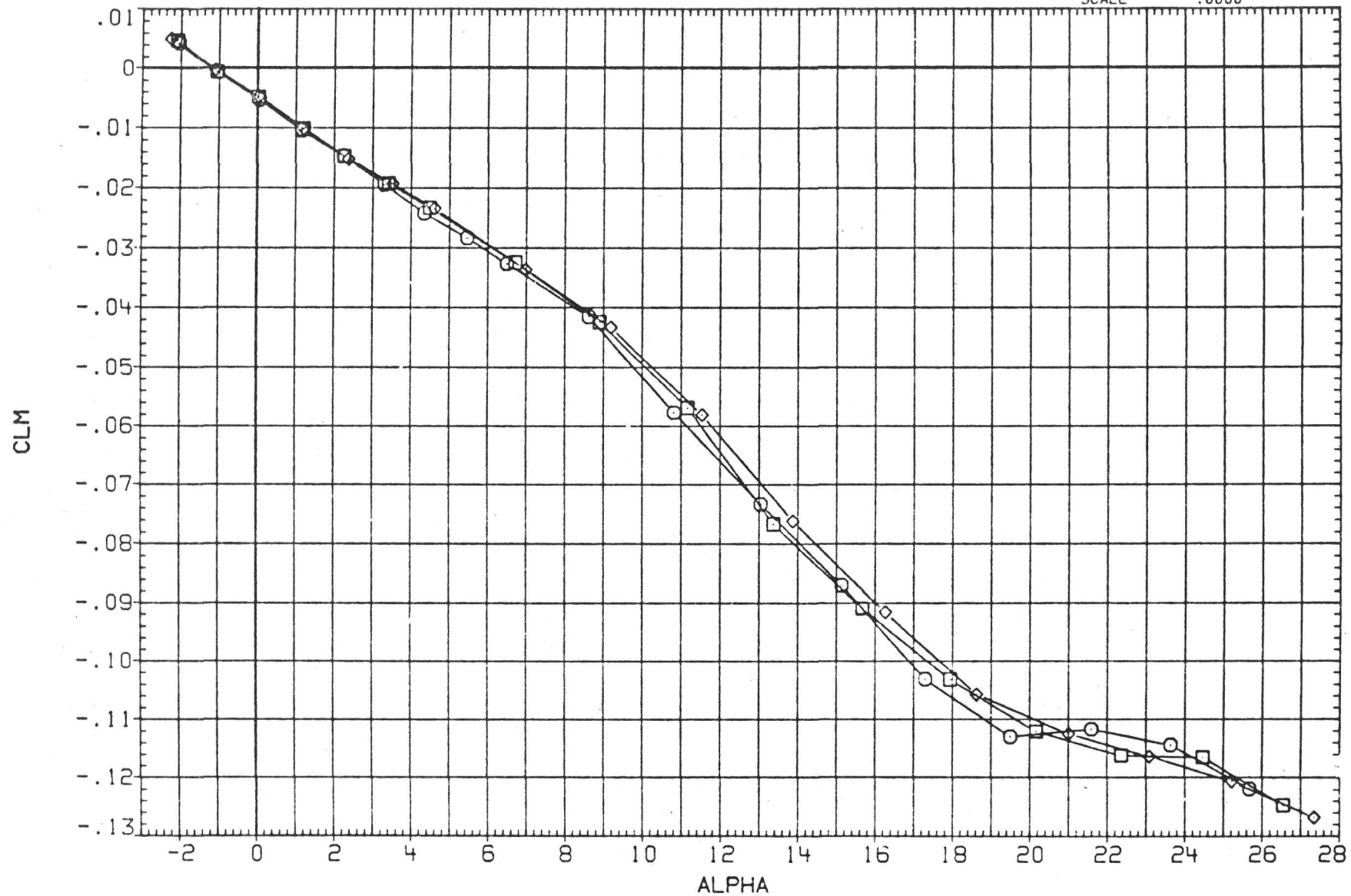


FIGURE 17. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 270

(JNC013) WING II 35-70-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 13.078 .080 I.ESWP 35.000
 □ 19.512 FILSWP 70.000 TESWP 20.000
 ◇ 26.251 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0586 SQ. M.
 LREF .2225 METERS
 BREF .3331 METERS
 XMRP .1875 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

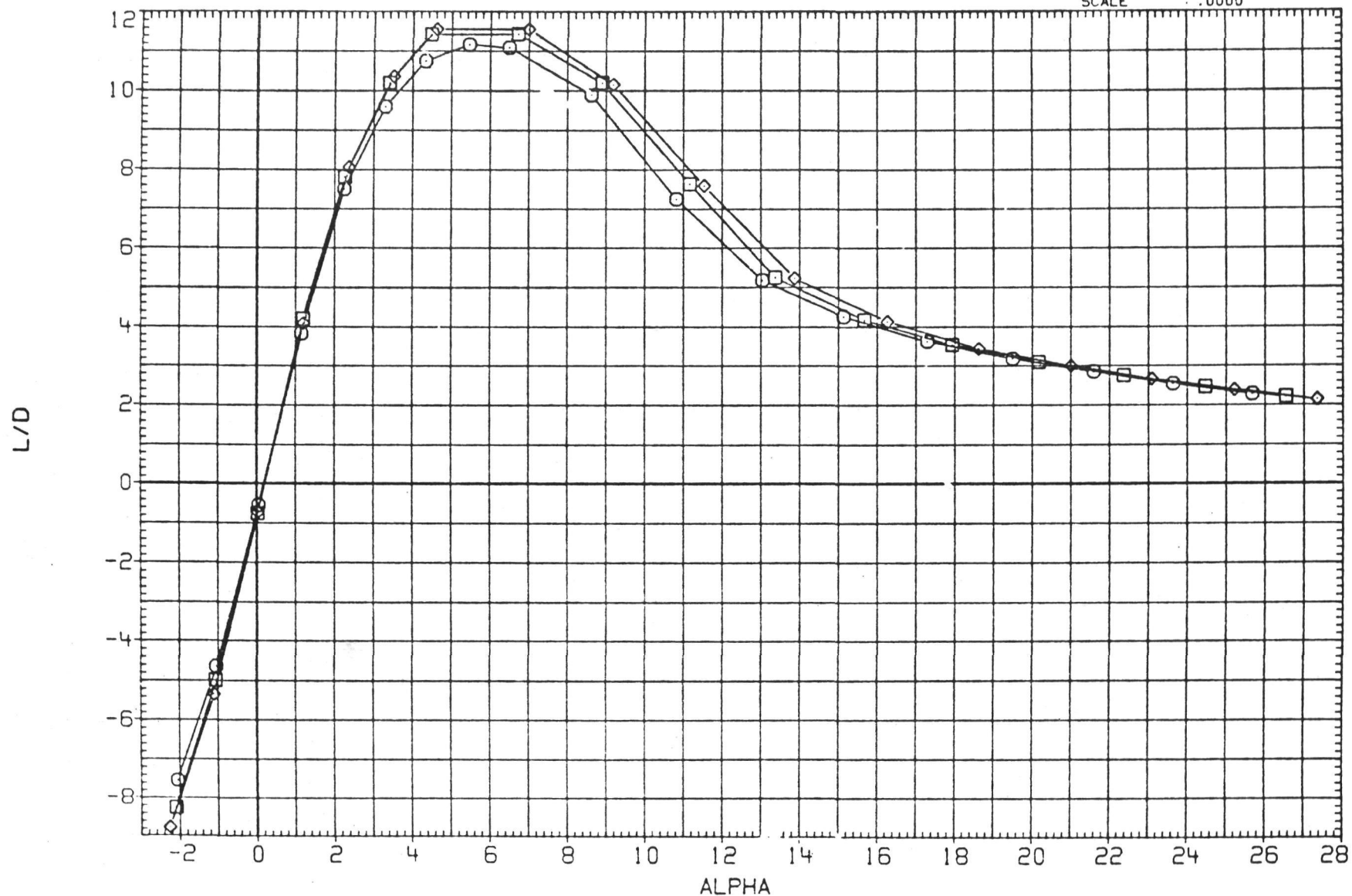


FIGURE 17. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 270

(JNC014) WING II 35-65-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 13.035 .080 LESWP 35.000
 □ 19.637 FILSWP 65.000 TESWP 20.000
 ◇ 26.238 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0558 SQ. M.
 LREF .2043 METERS
 BREF .3331 METERS
 XMRP .1592 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

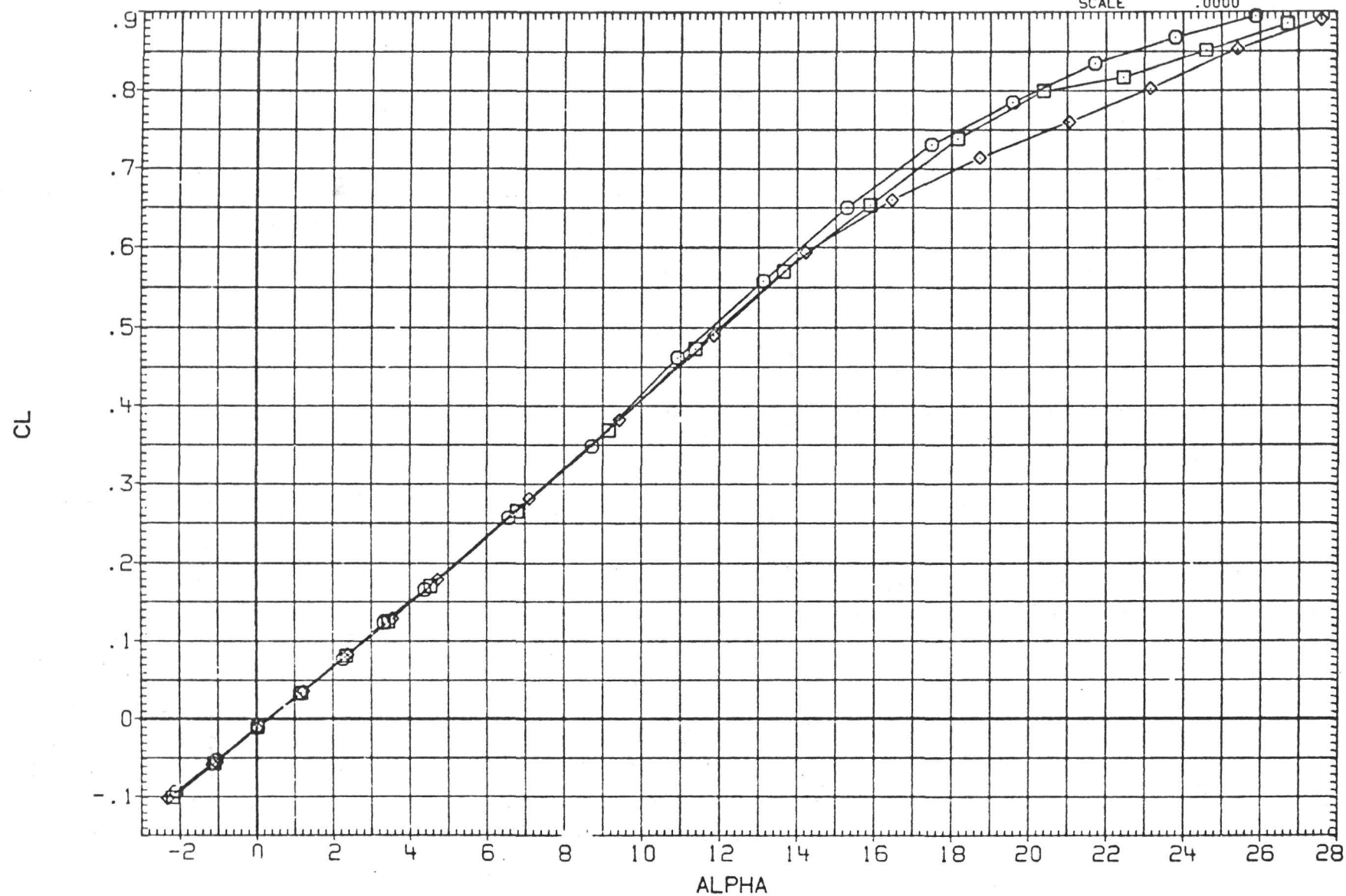


FIGURE 18. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 265

(JNC014) WING II 35-65-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES	LESWP	TESWP	MACH
○	13.035		.090	35.000		
□	19.637	FILSWP	65.000	20.000		
◇	26.238	BETA	.000			
		GRITNO	120.000			

REFERENCE INFORMATION

SREF	.0558	SQ. M
LREF	.2043	METERS
BREF	.3331	METERS
XMRP	.1592	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

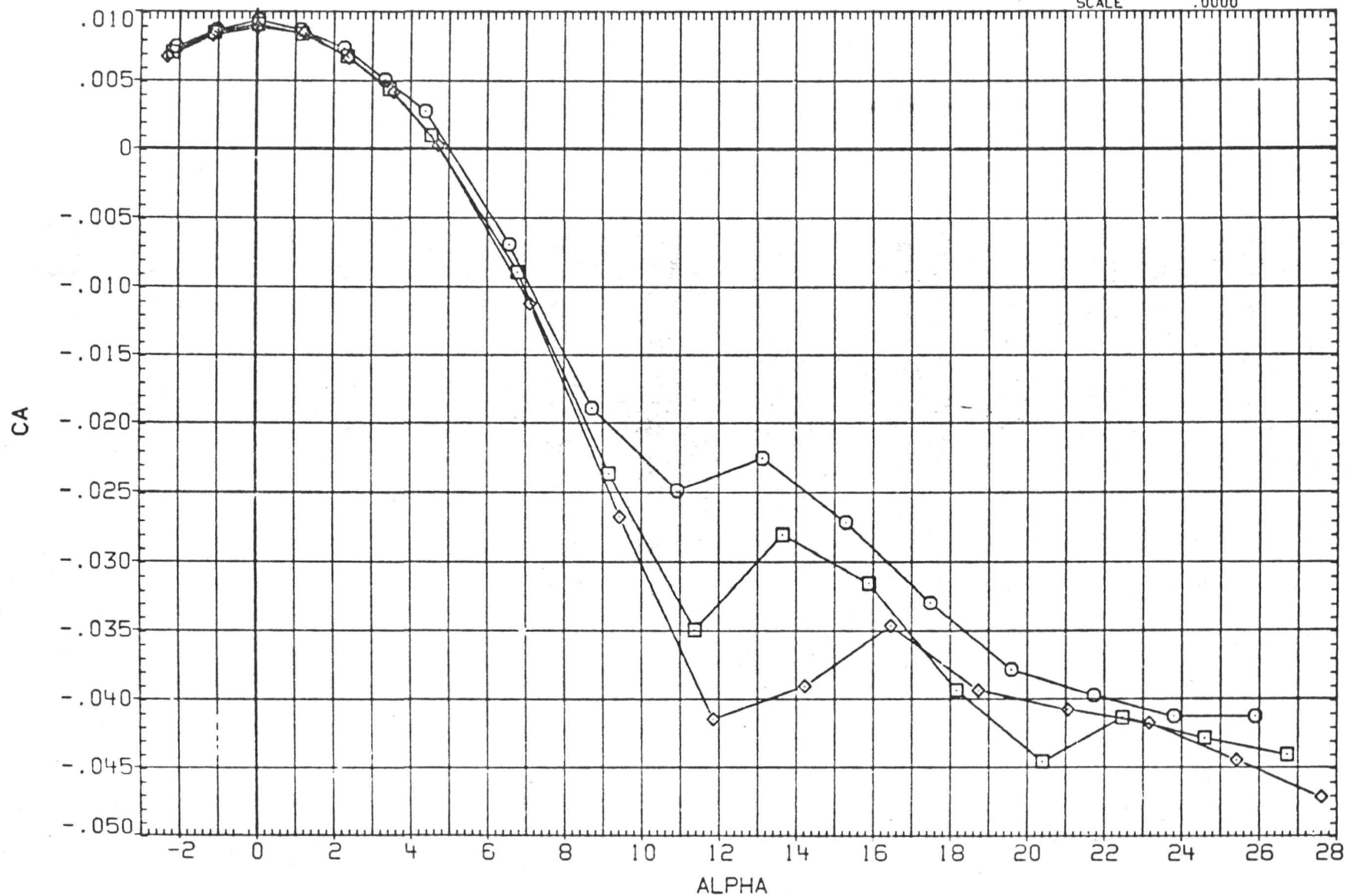


FIGURE 18. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 265

SYMBOL RN/M

PARAMETRIC VALUES

SREF	.0558	SQ. M.
LREF	.2043	METERS
BREF	.3331	METERS
XMRP	.1592	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

○
□
◇

13.035
19.537
26.238

T/C
FILSWP
BETA
GRITNO

.080
65.000
.000
120.000

LESWP
TESWP
MACH

35.000
20.000
.300

CD

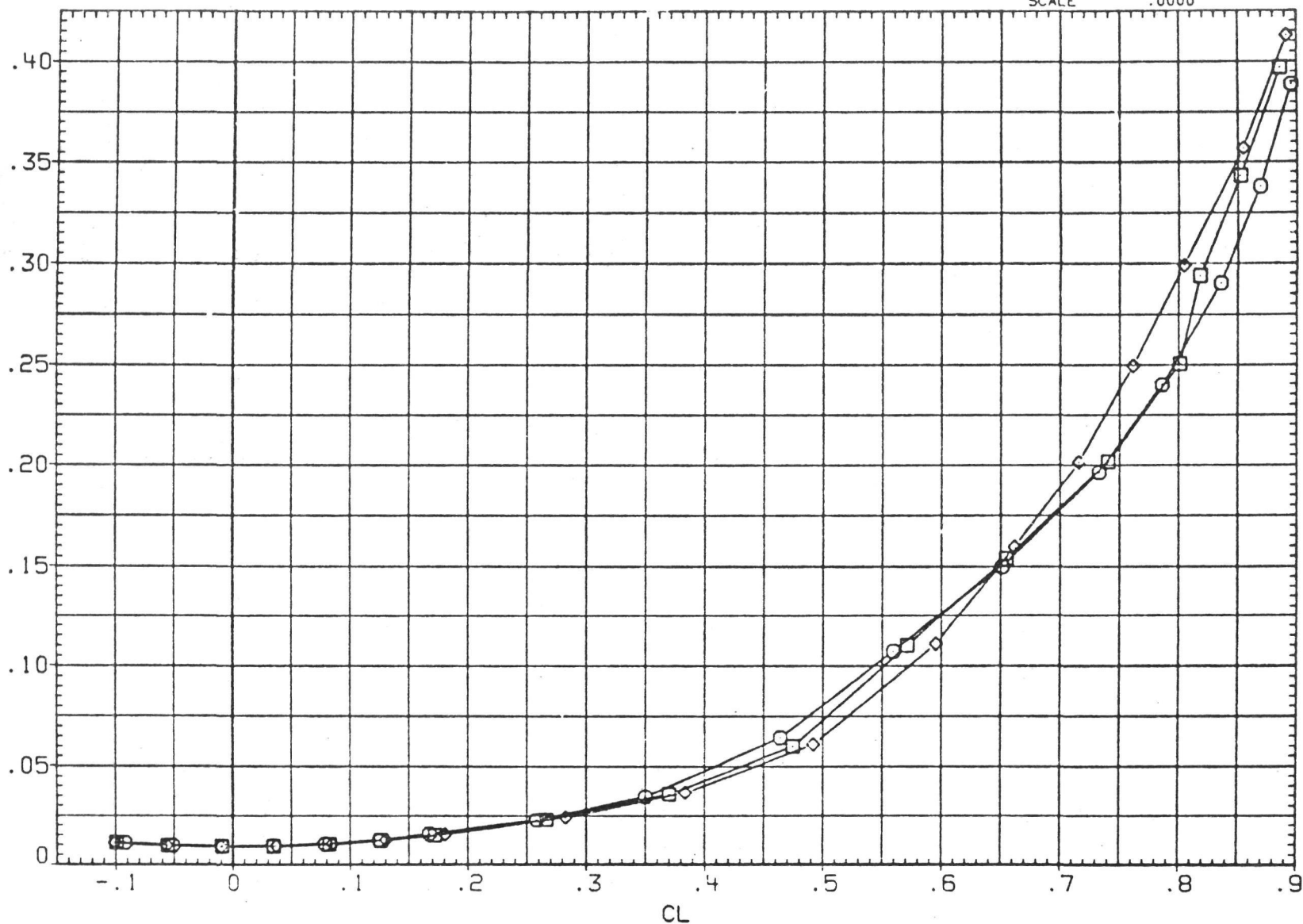


FIGURE 18. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 265

(JNC014) WING II 35-65-0008

AMES 12-086 (LA65)

SYMBOL RN/M T/C FILSWP 65.000 LESWP 35.000

13.035 19.637 26.238 BETA .000 MACH .300

GRITNO 120.000

REFERENCE INFORMATION

SREF	.0558	SQ. M.
LREF	.2043	METERS
BREF	.3331	METERS
XMRP	.1592	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

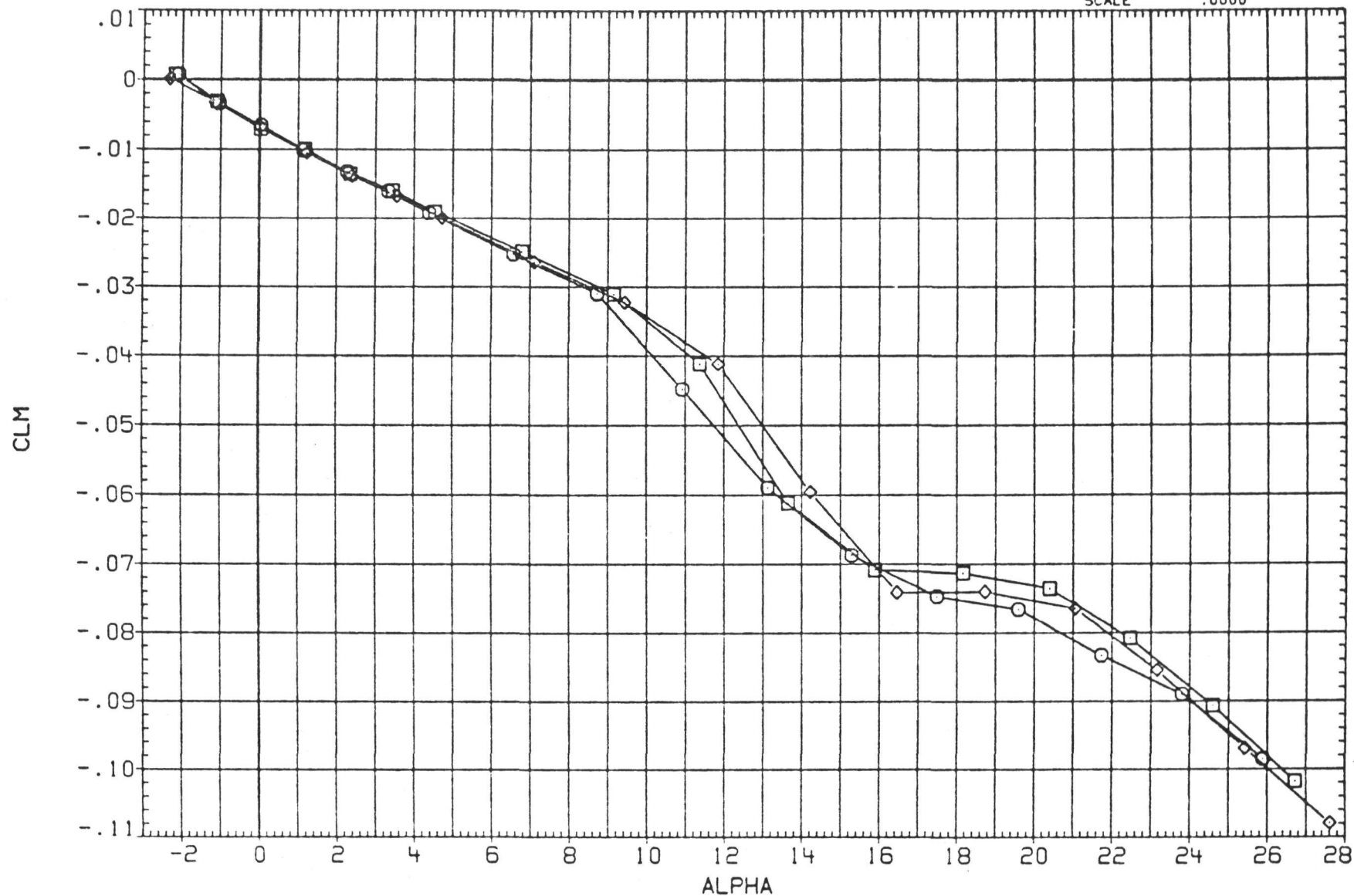


FIGURE 18. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 265

SYMBOL	RN/M	T/C	PARAMETRIC VALUES	LESWP	TESWP	MACH
○	13.035		.000	35.000		
□	19.637	FILSWP	65.000	20.000		
◇	26.238	BETA	.000		.300	
		GRITNO	120.000			

REFERENCE INFORMATION	
SREF	.0558 SQ. M.
LREF	.2043 METERS
BREF	.3331 METERS
XMRP	.1592 M. XB
YMRP	.0000 M. YB
ZMRP	.0000 M. ZB
SCALE	.0000

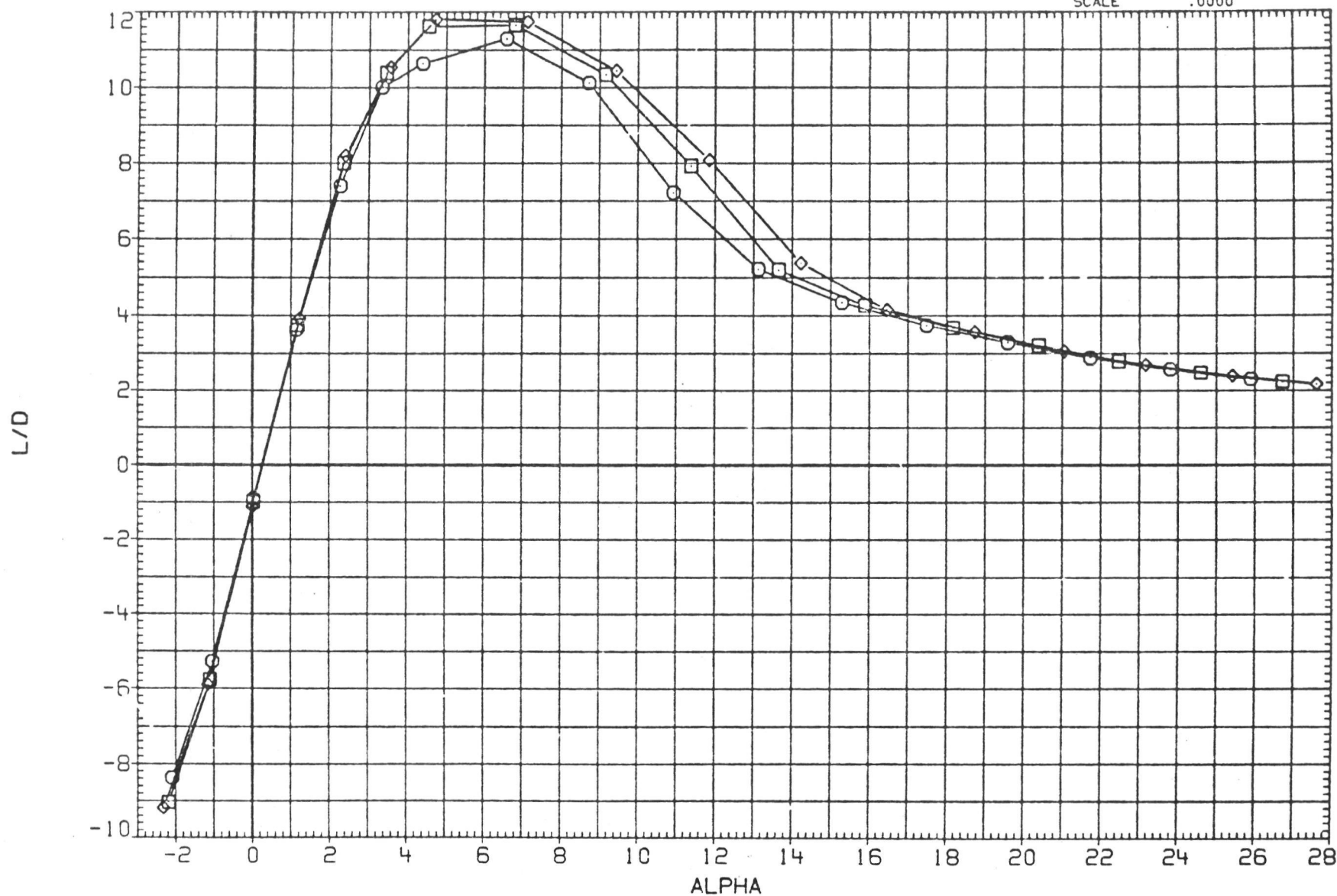


FIGURE 18. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 265

(JNC015) WING II 35-60-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	14.650	T/C	.080	LESWP	35.000
□	19.702	FILSWP	60.000	TESWP	20.000
◇	25.697	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0538	SQ. M
LREF	.1923	METERS
BREF	.3331	METERS
XMRP	.1394	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

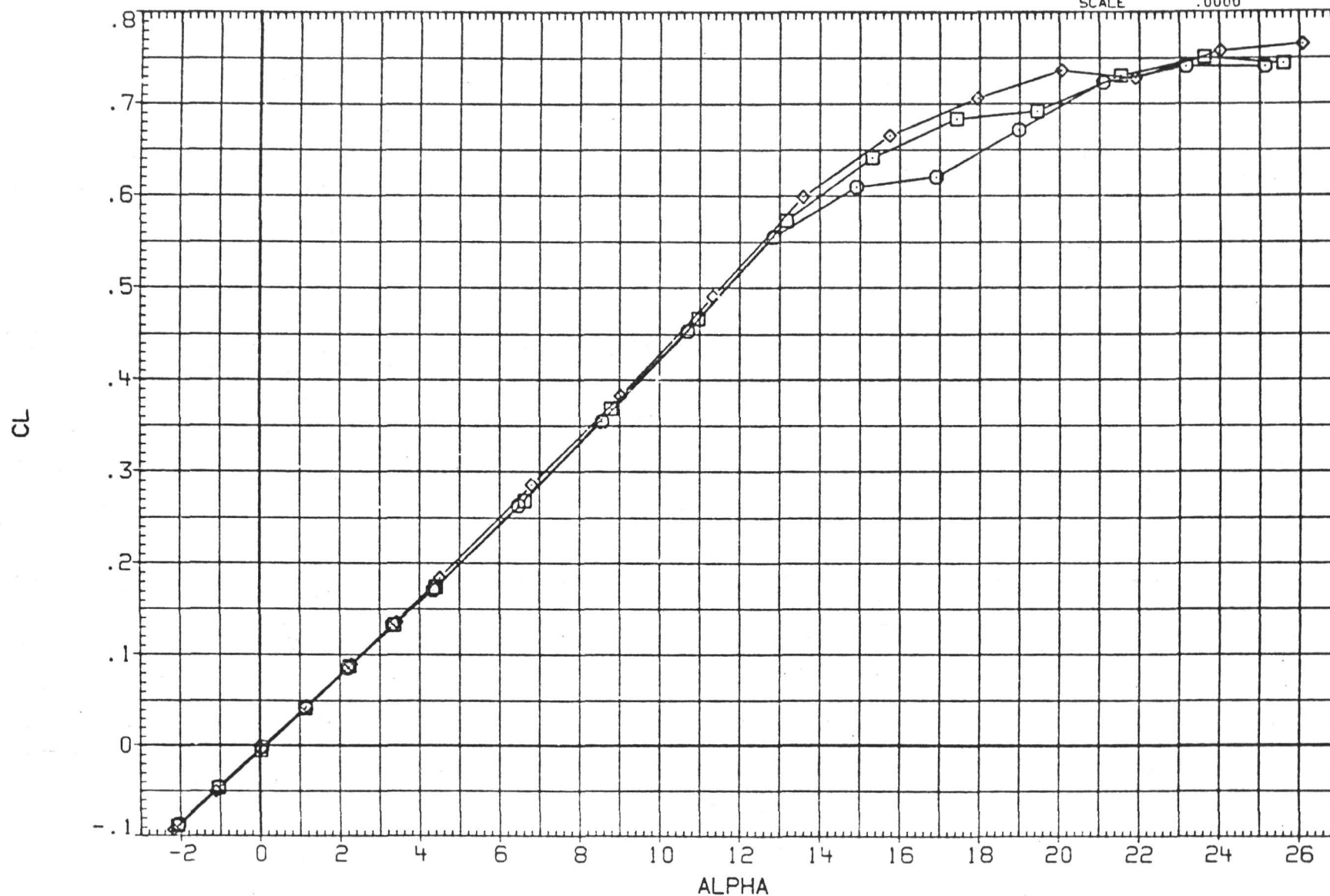


FIGURE 19. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 260

(JNC015) WING II 35-60-0008
 SYMBOL RN/M PARAMETRIC VALUES
 ○ 14.650 T/C .080 LESWP 35.000
 □ 19.702 FILSWP 60.000 TESWP 20.000
 ◇ 25.697 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0538 SQ. M.
 LREF .1923 METERS
 BREF .3331 METERS
 XMRP .1394 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

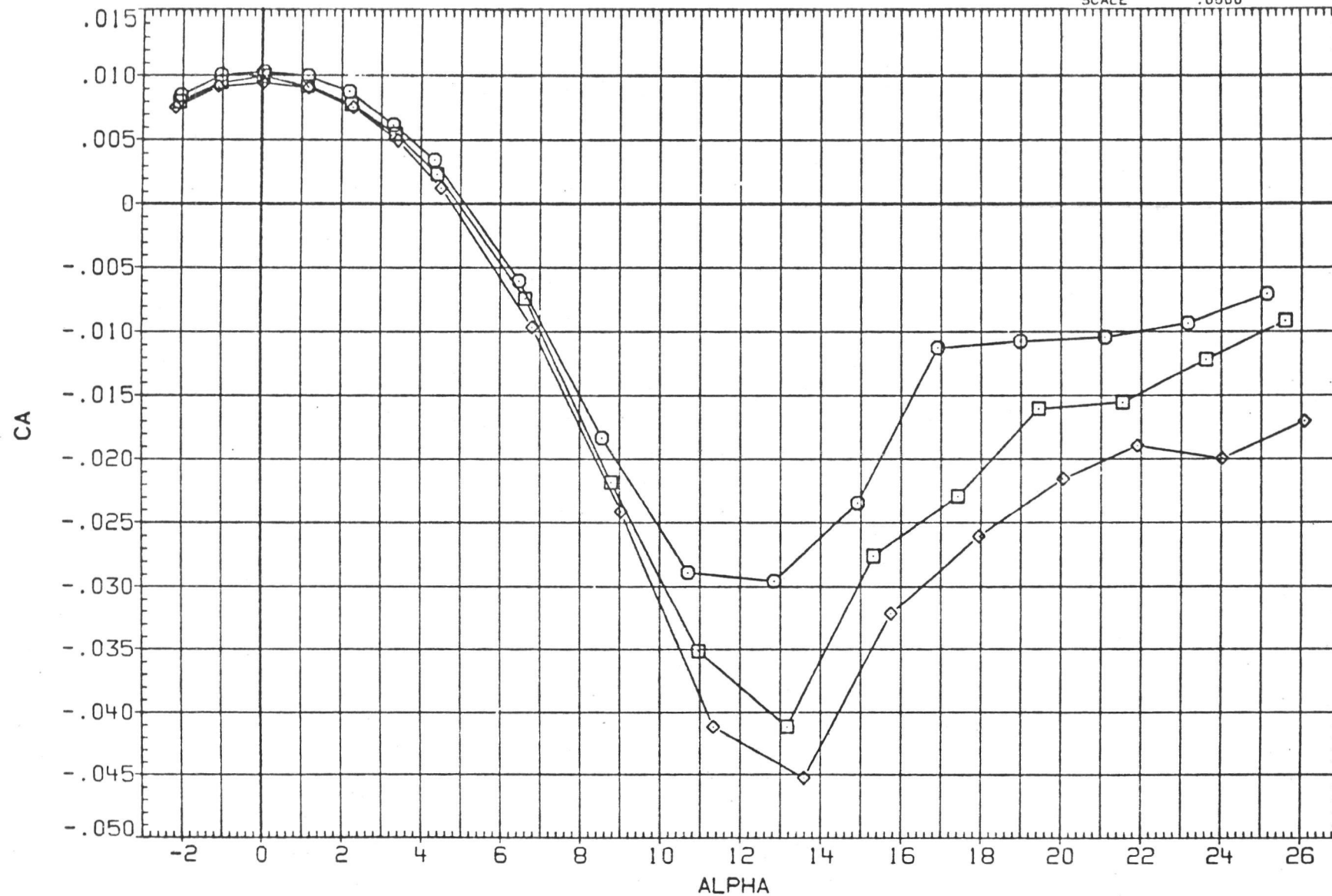


FIGURE 19. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 260

(JNC015) WING II 35-60-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 14.650 .080 LESWP 35.000
 □ 19.702 FILSWP 60.000 TESWP 20.000
 ◇ 25.697 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0538 SQ. M.
 LREF .1923 METERS
 BREF .3331 METERS
 XMRP .1394 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

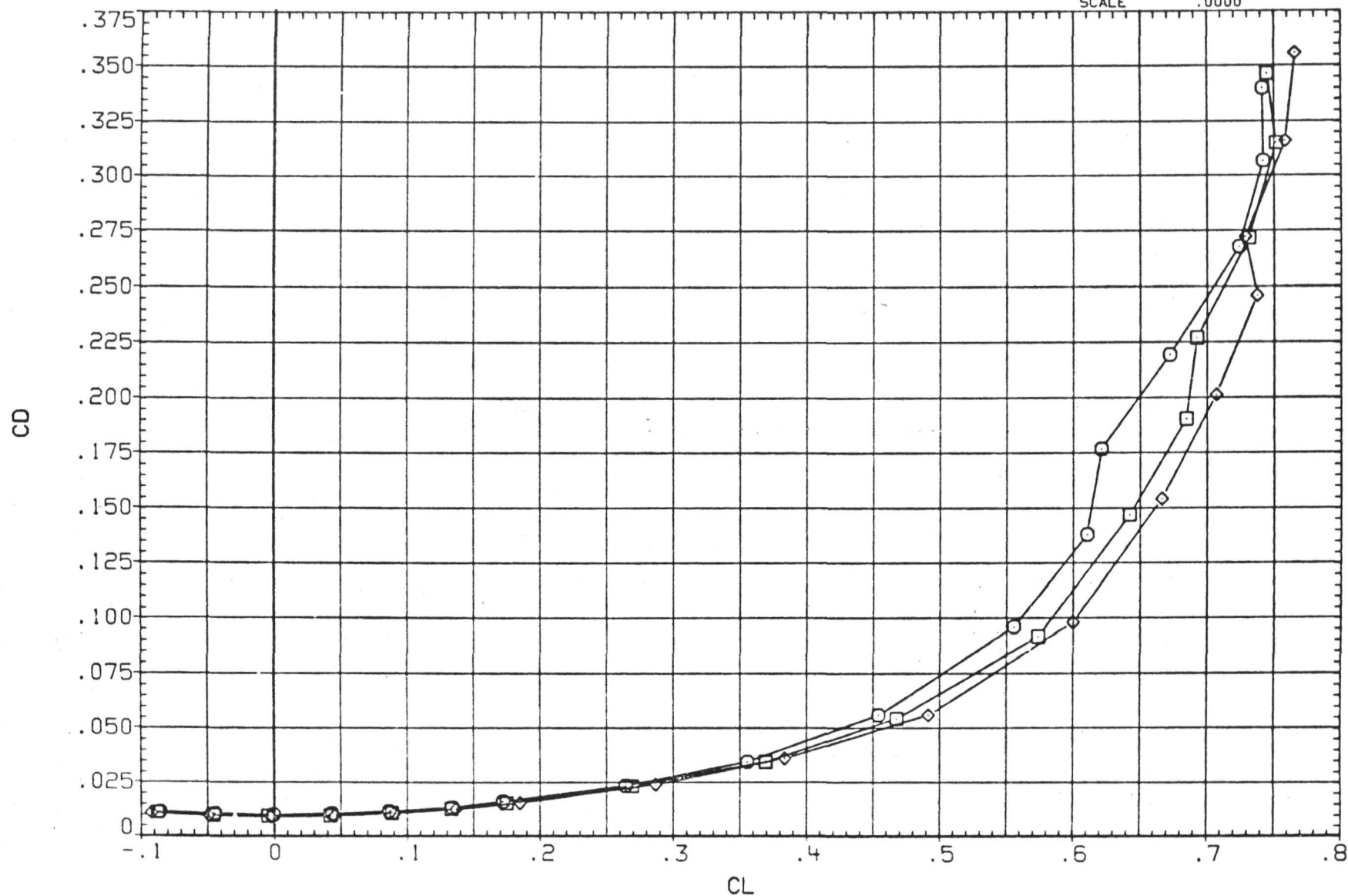


FIGURE 19. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 260

SYMBOL

RN/M

T/C

PARAMETRIC VALUES

LESWP

35.000

FILSWP

60.000

TESWP

20.000

BETA

.000

MACH

.300

GRITNO

120.000

REFERENCE INFORMATION

SREF .0538

SQ. M.

LREF .1923

METERS

BREF .3331

METERS

XMRP .1394

M. XB

YMRP .0000

M. YB

ZMRP .0000

M. ZB

SCALE .0000

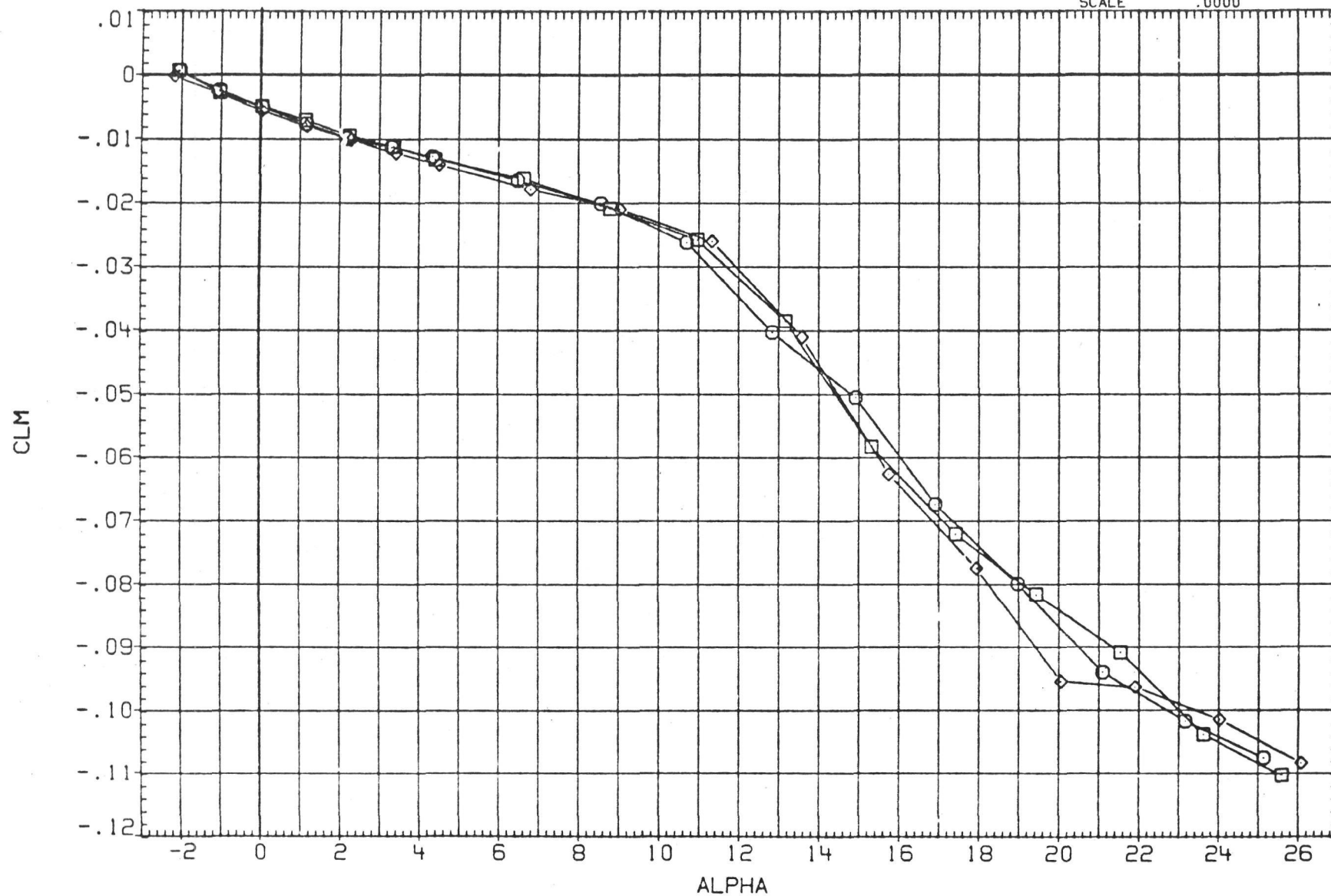


FIGURE 19. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 260

(JNC015) WING II 35-60-0008

AMES 12-086 (LA65)

REFERENCE INFORMATION

SYMBOL	RN/M	PARAMETRIC VALUES
○	14.650	T/C .080
□	19.702	FILSWP 60.000
◇	25.697	BETA .000
		GRITNO 120.000

LESWP	35.000
TESWP	20.000
MACH	.300

SREF	.0538	SQ. M.
LREF	.1923	METERS
BREF	.3331	METERS
XMRP	.1394	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

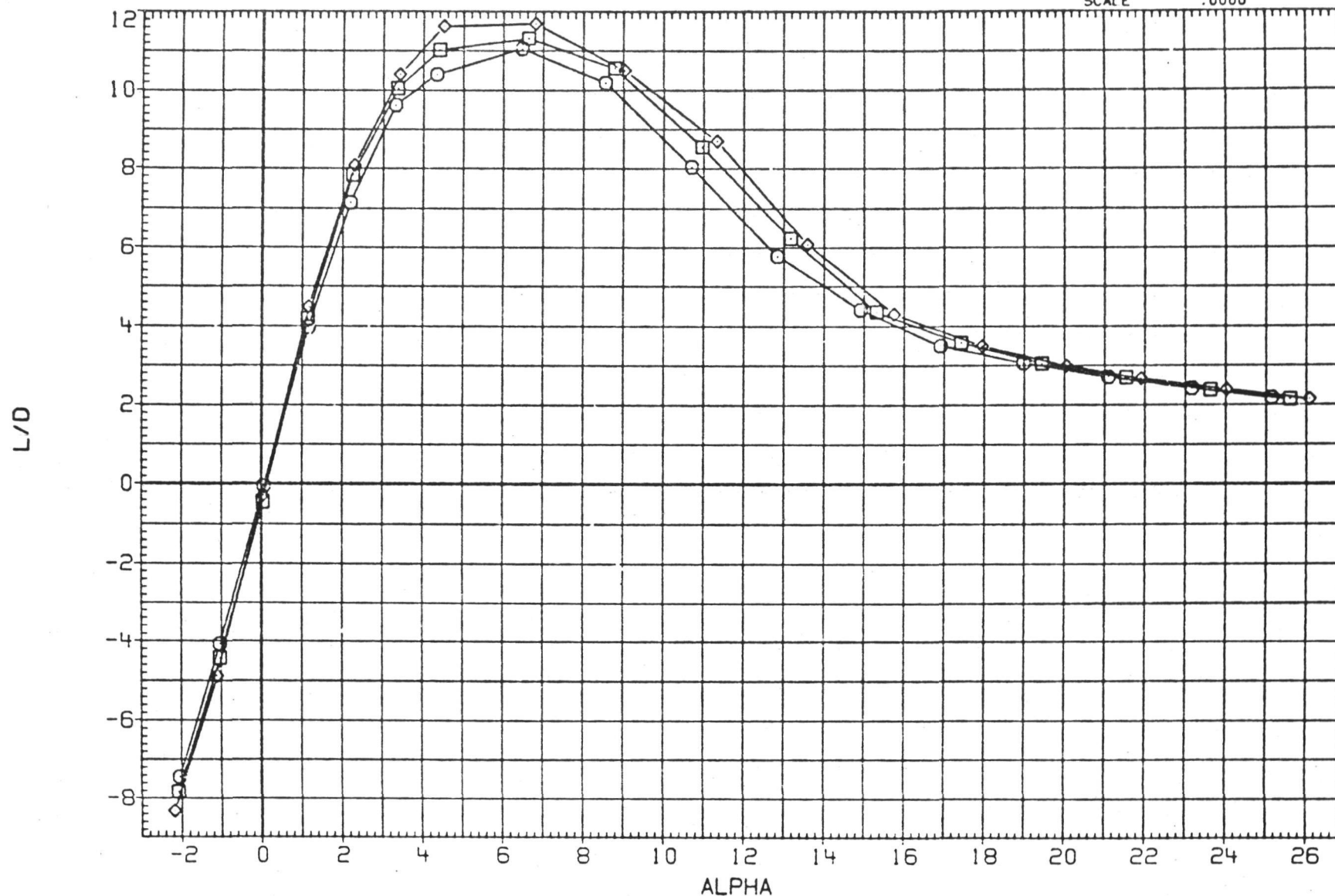


FIGURE 19. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 260

SYMBOL

RN/M

PARAMETRIC VALUES

○
□
◇12.868
19.433
26.110T/C
FILSWP
BETA
GRITNO.080
55.000
.000
120.000LESWP
TESWP
MACH35.000
20.000
.300

REFERENCE INFORMATION

SREF	.0524	SQ. M.
LREF	.1839	METERS
BREF	.3331	METERS
XMRP	.1245	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

CL

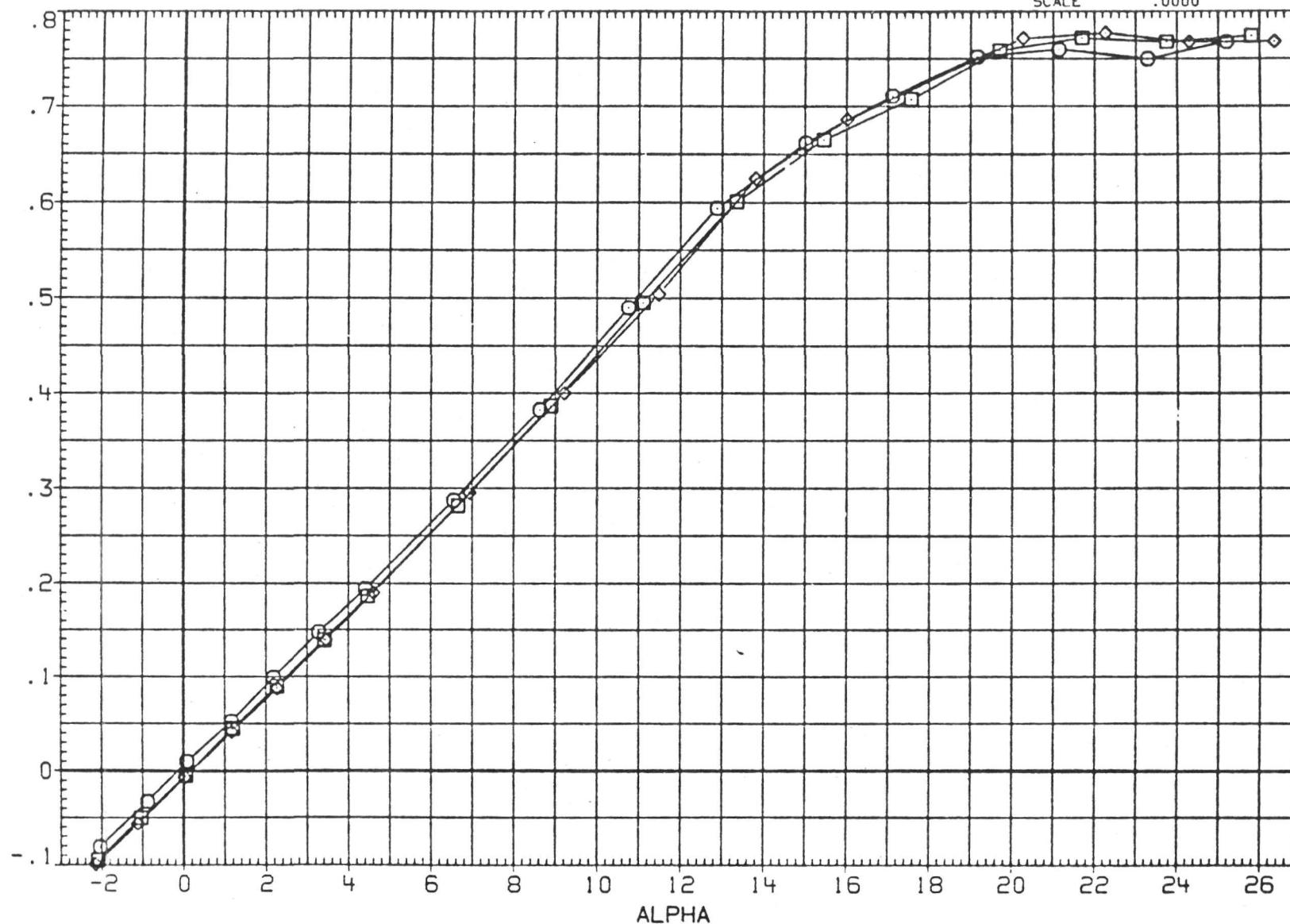


FIGURE 20. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 255

(JNC016) WING II 35-55-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 12.868 FILSWP .080 LESWP 35.000
 □ 19.433 BETA 55.000 TESWP 20.000
 ◇ 26.110 GRITNO 120.000 MACH .300

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0524 SQ. M.
 LREF .1839 METERS
 BREF .3331 METERS
 XMRP .1245 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

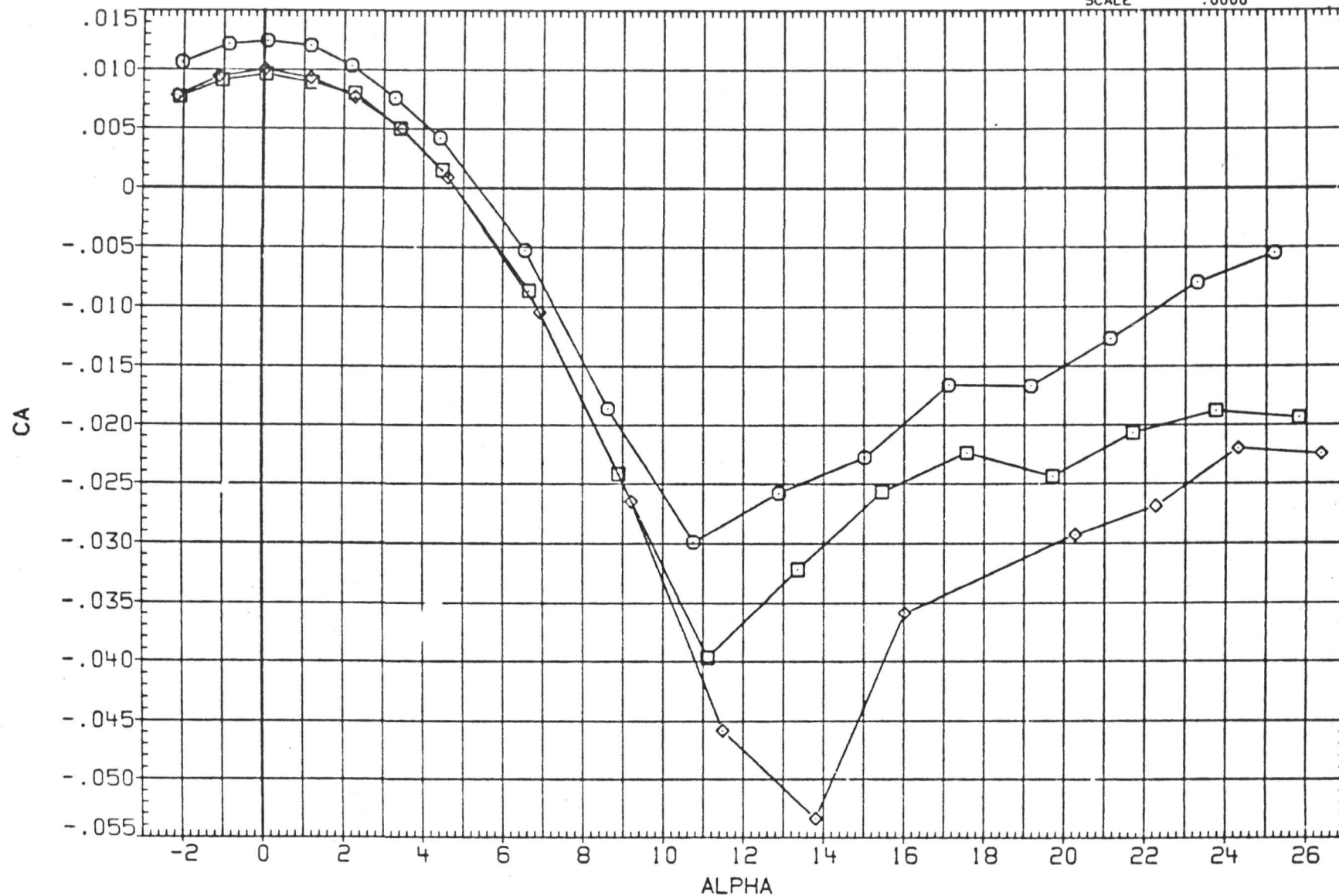


FIGURE 20. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 255

SYMBOL RN/M

PARAMETRIC VALUES

SREF	.0524	SO. M.
LREF	.1839	METERS
BREF	.3331	METERS
XMRP	.1245	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

○
□
◇

12.868
19.433
26.110

T/C
FILSWP
BETA
GRITNO

.080
55.000
.000
120.000

LESWP
TESWP
MACH

35.000
20.000
.300

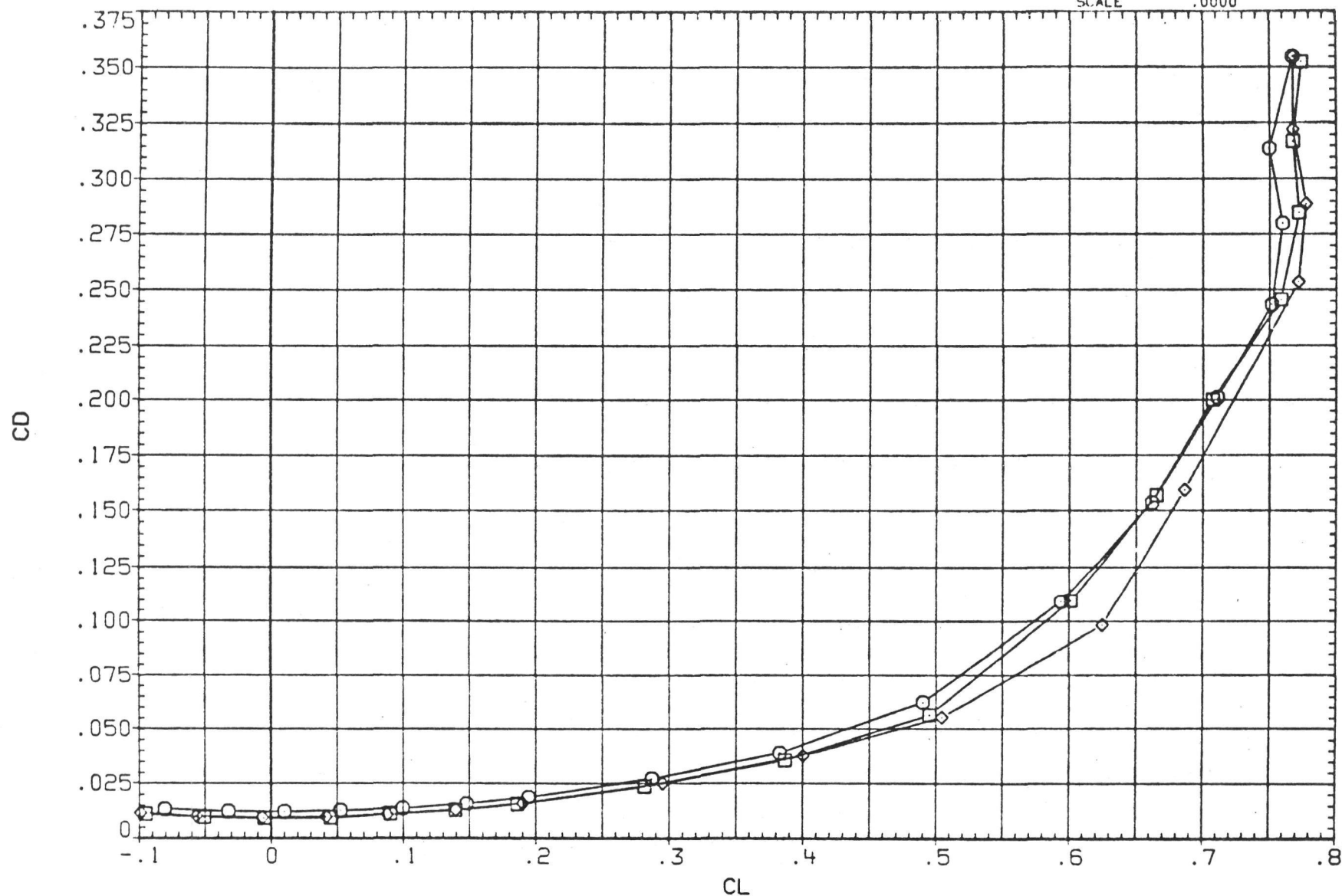


FIGURE 20. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 255

(JNC016) WING II 35-55-0008
 SYMBOL RN/M T/C .080 LESWP 35.000
 12.869 FILSWP 55.000 TESWP 20.000
 19.433 BETA .000 MACH .300
 26.110 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0524 SQ. M.
 LREF .1839 METERS
 BREF .3331 METERS
 XMRP .1245 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

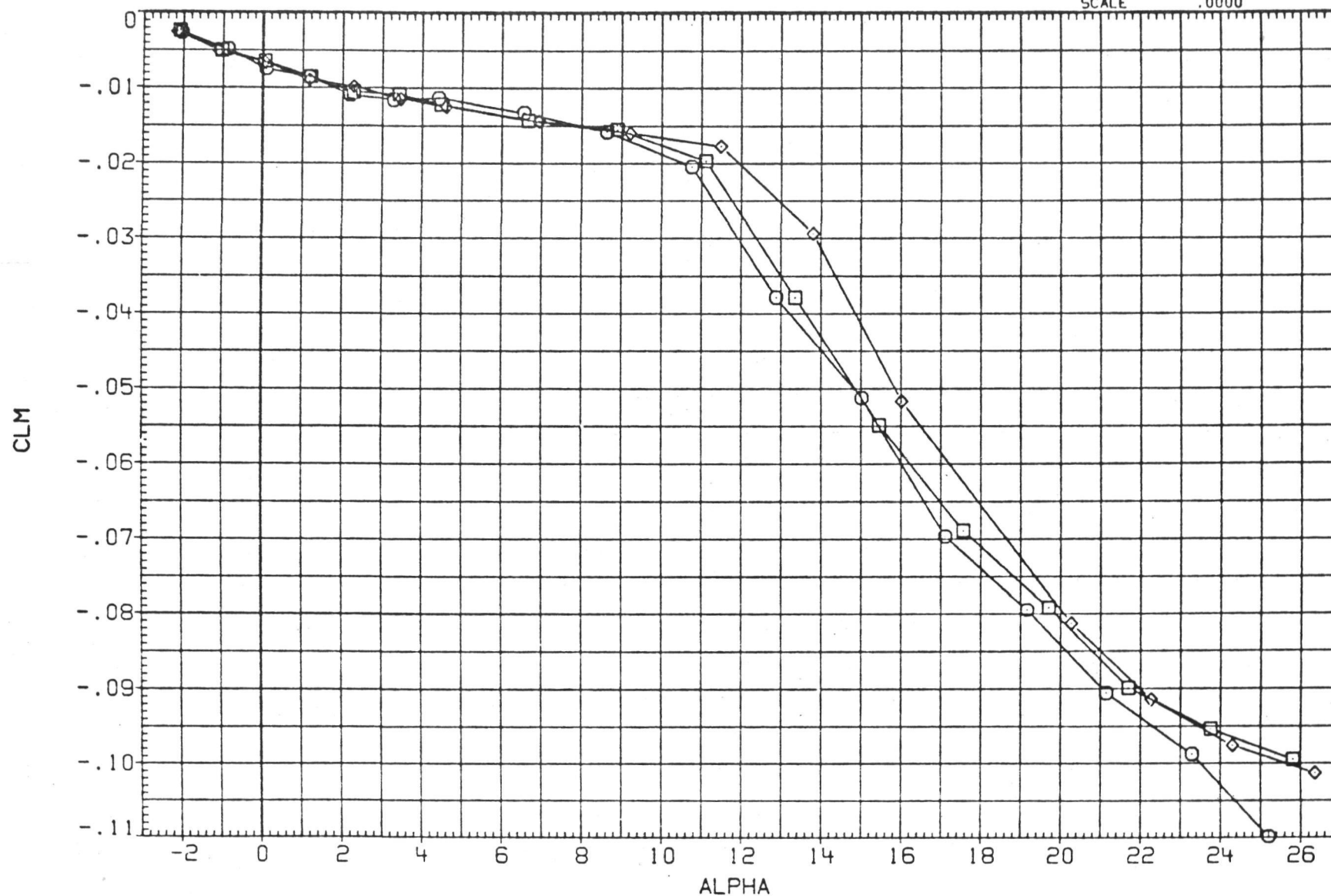


FIGURE 20. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 255

SYMBOL RN/M

PARAMETRIC VALUES

○

12.868

T/C

.080

LESWP

35.000

□

19.433

FILSWP

55.000

TESWP

20.000

◇

26.110

BETA

.000

MACH

.300

GRITNO

120.000

SREF	.0524	SQ. M.
LREF	.1839	METERS
BREF	.3331	METERS
XMRP	.1245	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

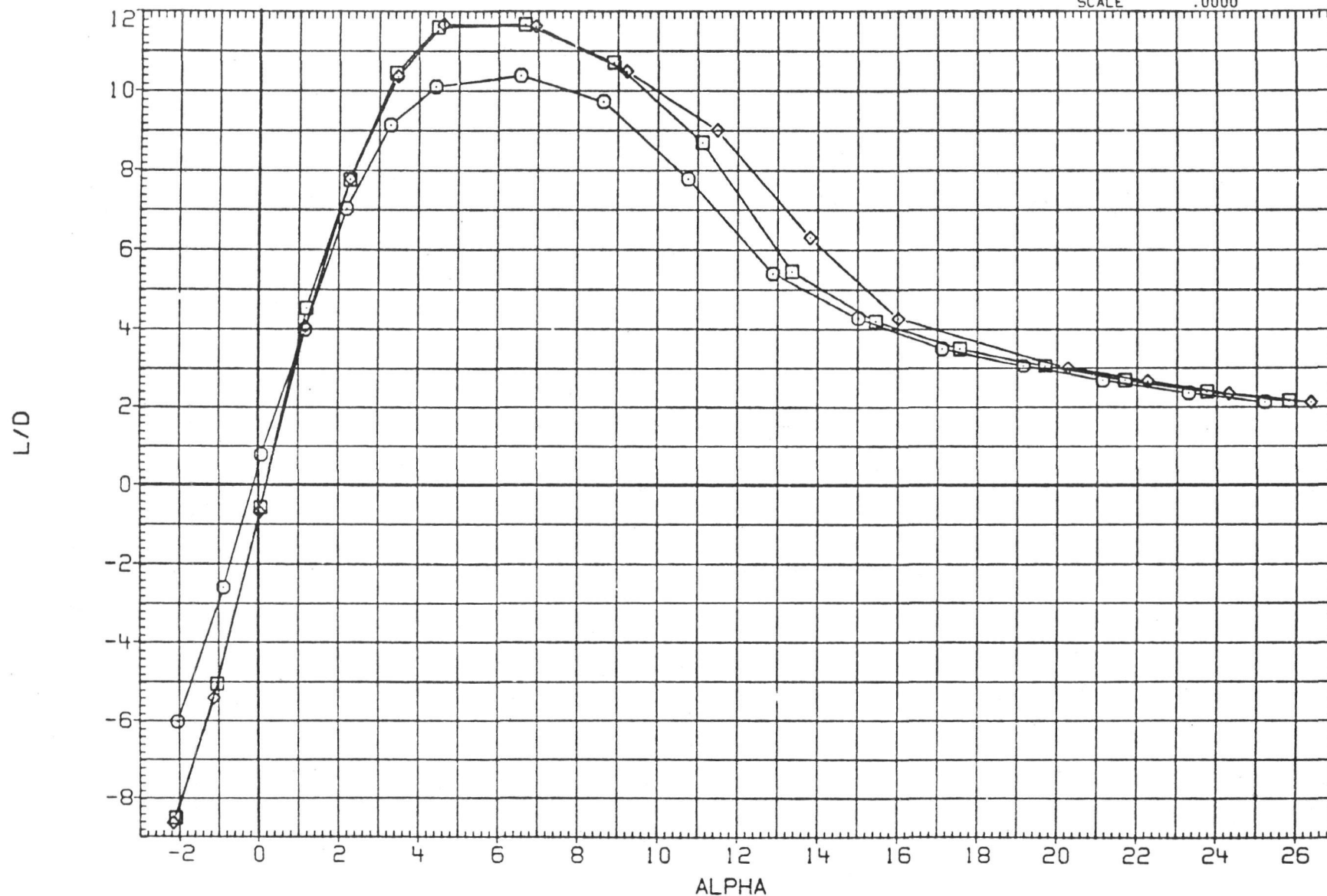


FIGURE 20. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 255

(JNC017) WING II 35-45-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES	LESWP	35.000
○	19.476	FILSWP	.080	TESWP	20.000
□	25.779	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION		
SREF	.0504	SQ. M.
LREF	.1725	METERS
BREF	.3331	METERS
XMRP	.1031	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

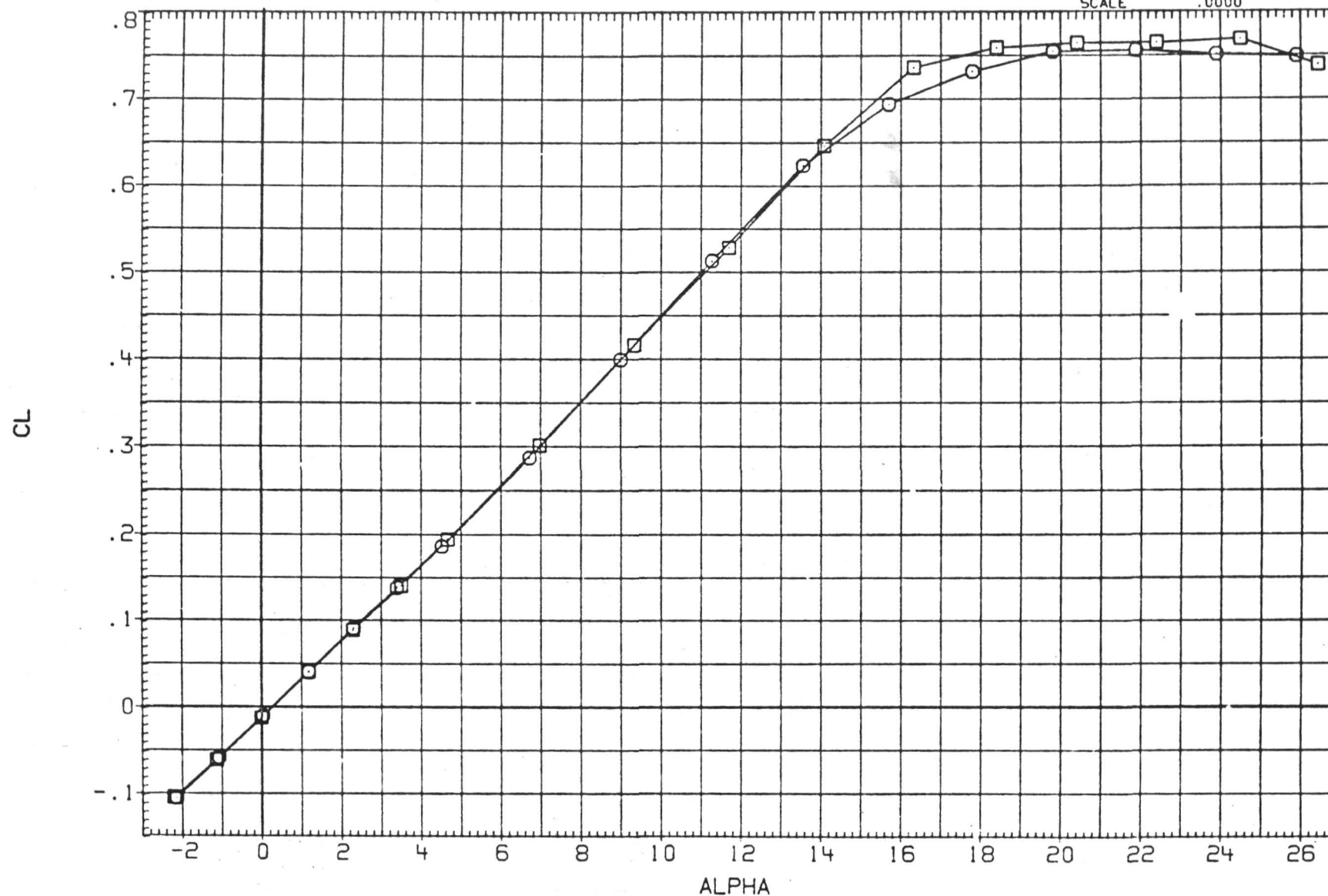


FIGURE 21. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 245

(JNC017) WING II 35-45-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 19.475 .080 LESHP 35.000
 □ 25.779 FILSWP 45.000 TESHP 20.000
 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0504 SQ. M.
 LREF .1725 METERS
 BREF .3331 METERS
 XMRP .1031 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

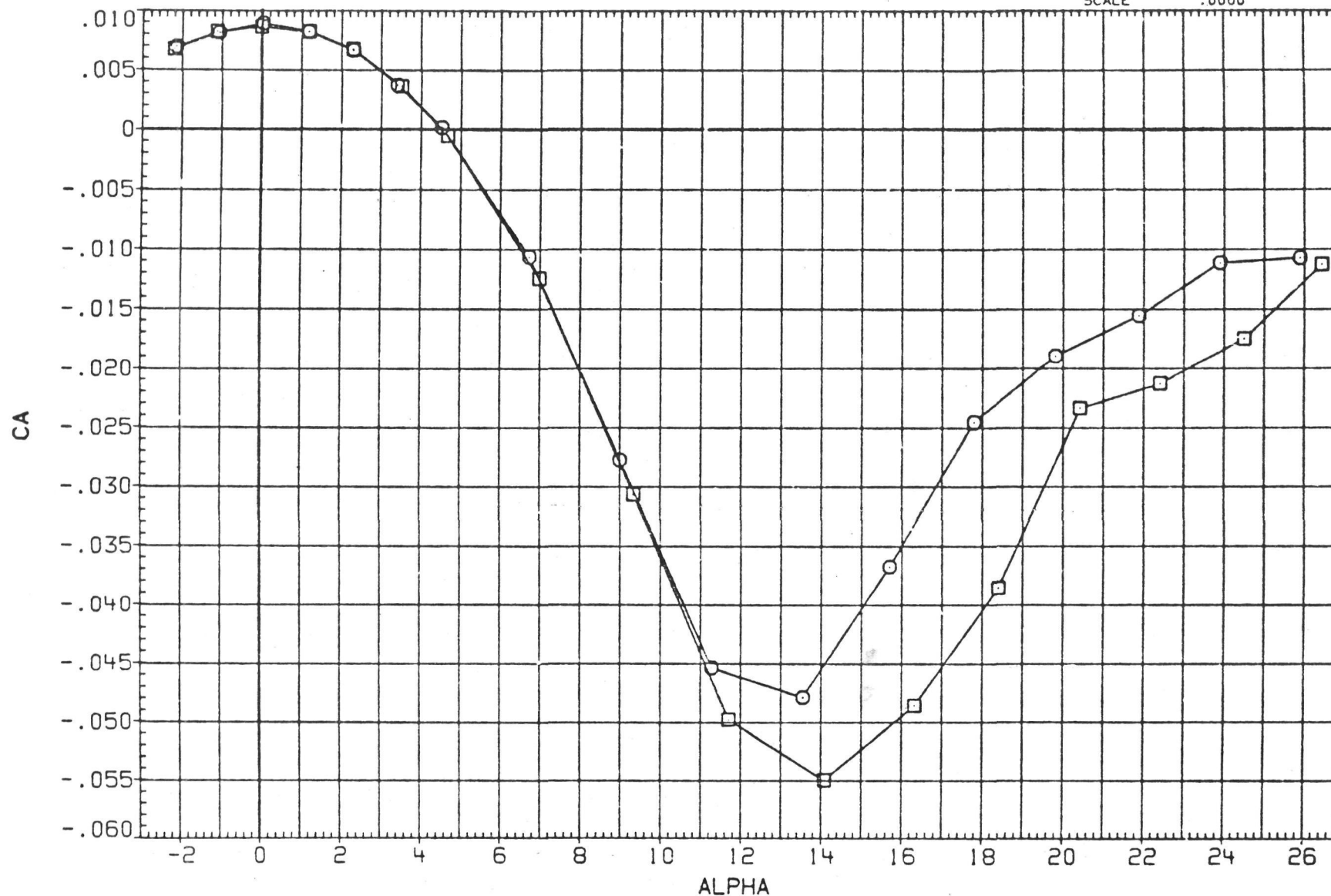


FIGURE 21. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 245

(JNC017) WING II 35-45-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 19.476 .080 LESWP 35.000
 □ 25.779 45.000 TESWP 20.000
 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0504 SQ. M.
 LREF .1725 METERS
 BREF .3331 METERS
 XMRP .1031 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

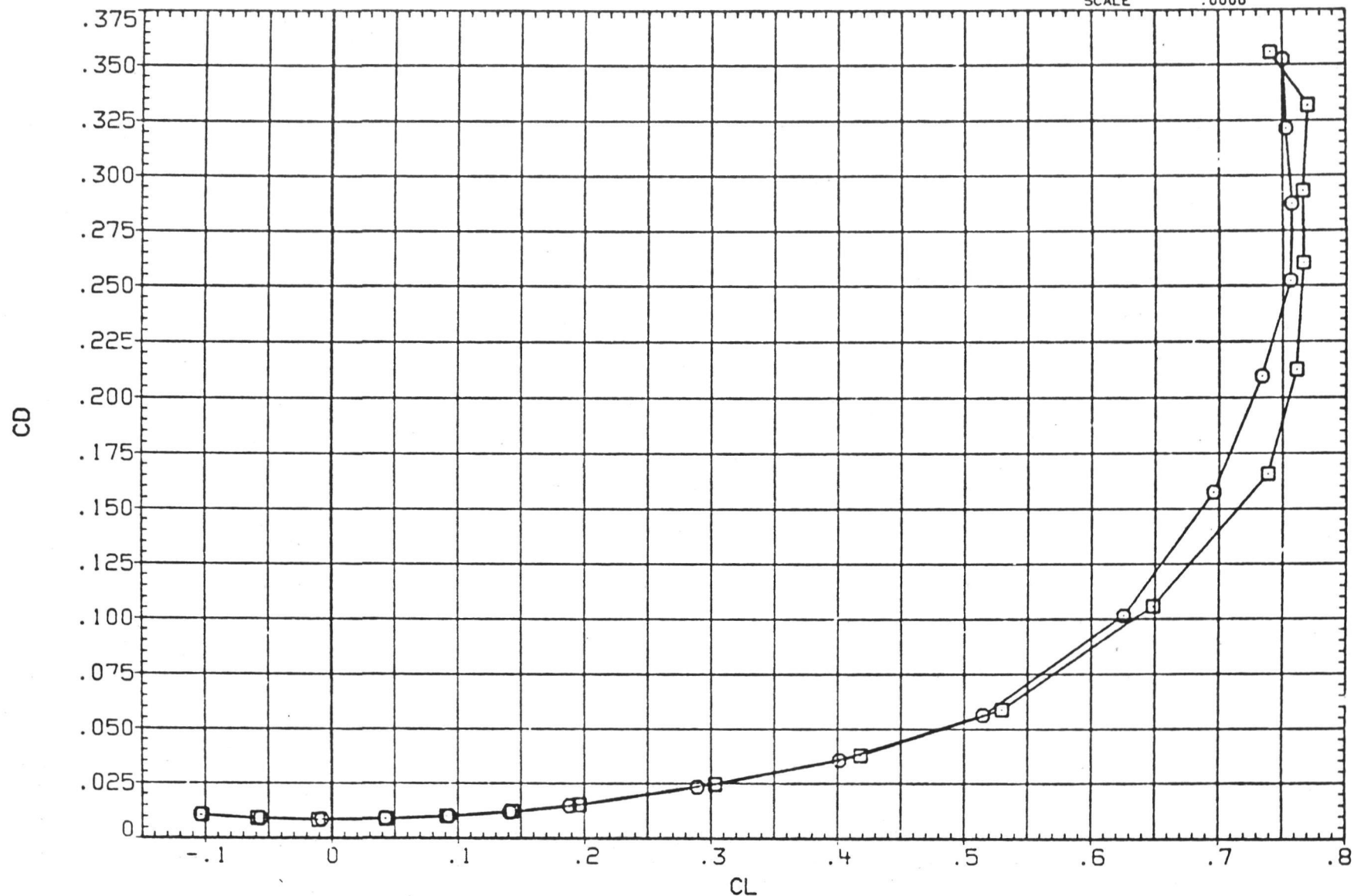


FIGURE 21. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 245

(JNC017) WING II 35-45-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 19.476 FILSWP .080 LESWP 35.000
 □ 25.779 BETA .000 TESWP 20.000
 GRITNO 120.000 MACH .300

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0504 SQ. M.
 LREF .1725 METERS
 BREF .3331 METERS
 XMRP .1031 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

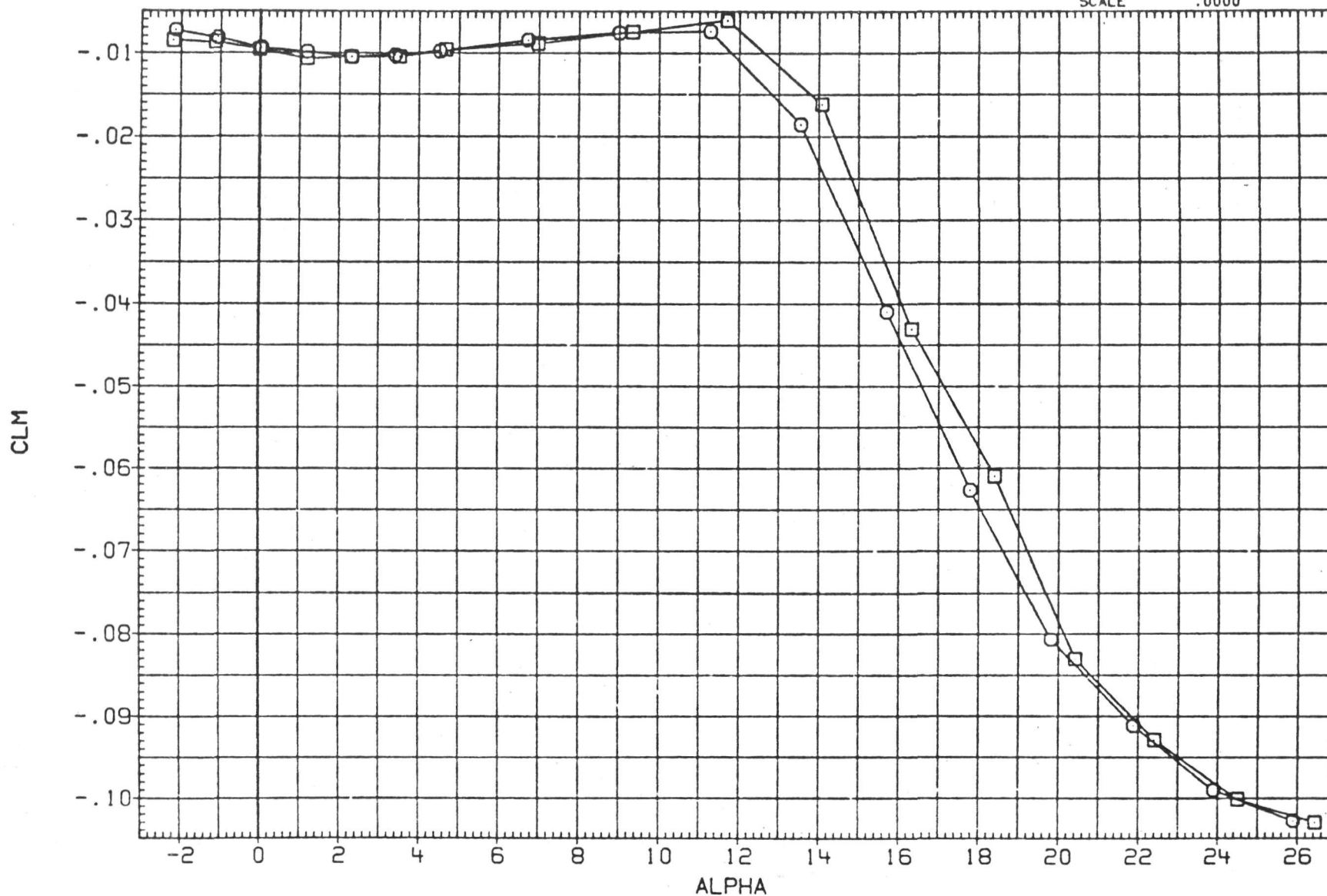


FIGURE 21. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 245

(JNC017) WING II 35-45-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	19.476	T/C	.080	LESHP	35.000
□	25.779	FILSWP	45.000	TESWP	20.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION	
SREF	.0504 SQ. M.
LREF	.1725 METERS
BREF	.3331 METERS
XMRP	.1031 M. XB
YMRP	.0000 M. YB
ZMRP	.0000 M. ZB
SCALE	.0000

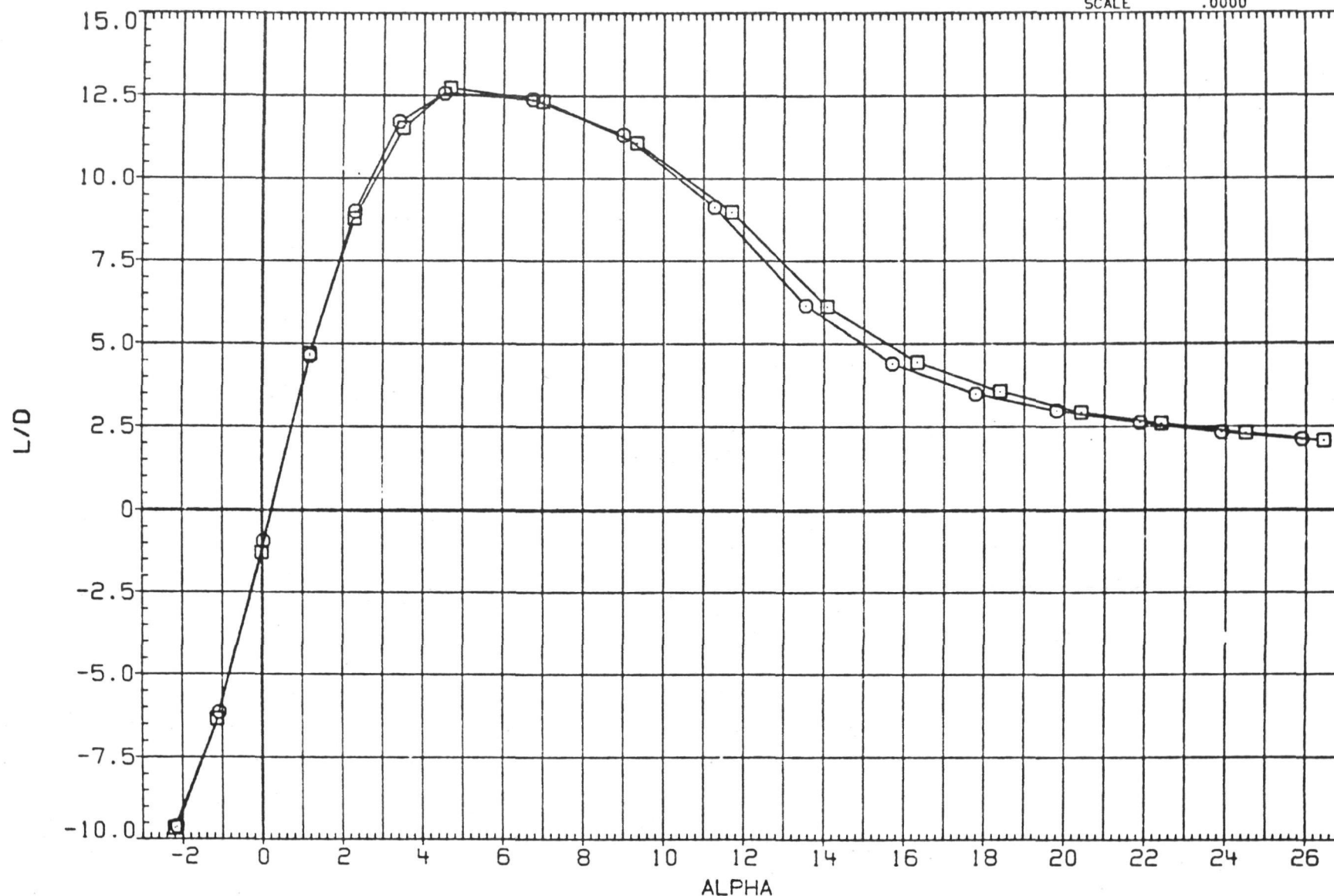


FIGURE 21. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 245

(JNC018) WING III 45-45-0008 AMES 12-086 (LA65)

SYMBOL		PARAMETRIC VALUES			
○	6.516	T/C	.080	LESWP	45.000
□	13.068	FILSWP	45.000	TESWP	15.000
◇	19.696	BETA	.000	MACH	.300
△	26.258	GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0490	SQ. M.
LREF	.1723	METERS
BREF	.3331	METERS
XMRP	.1064	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

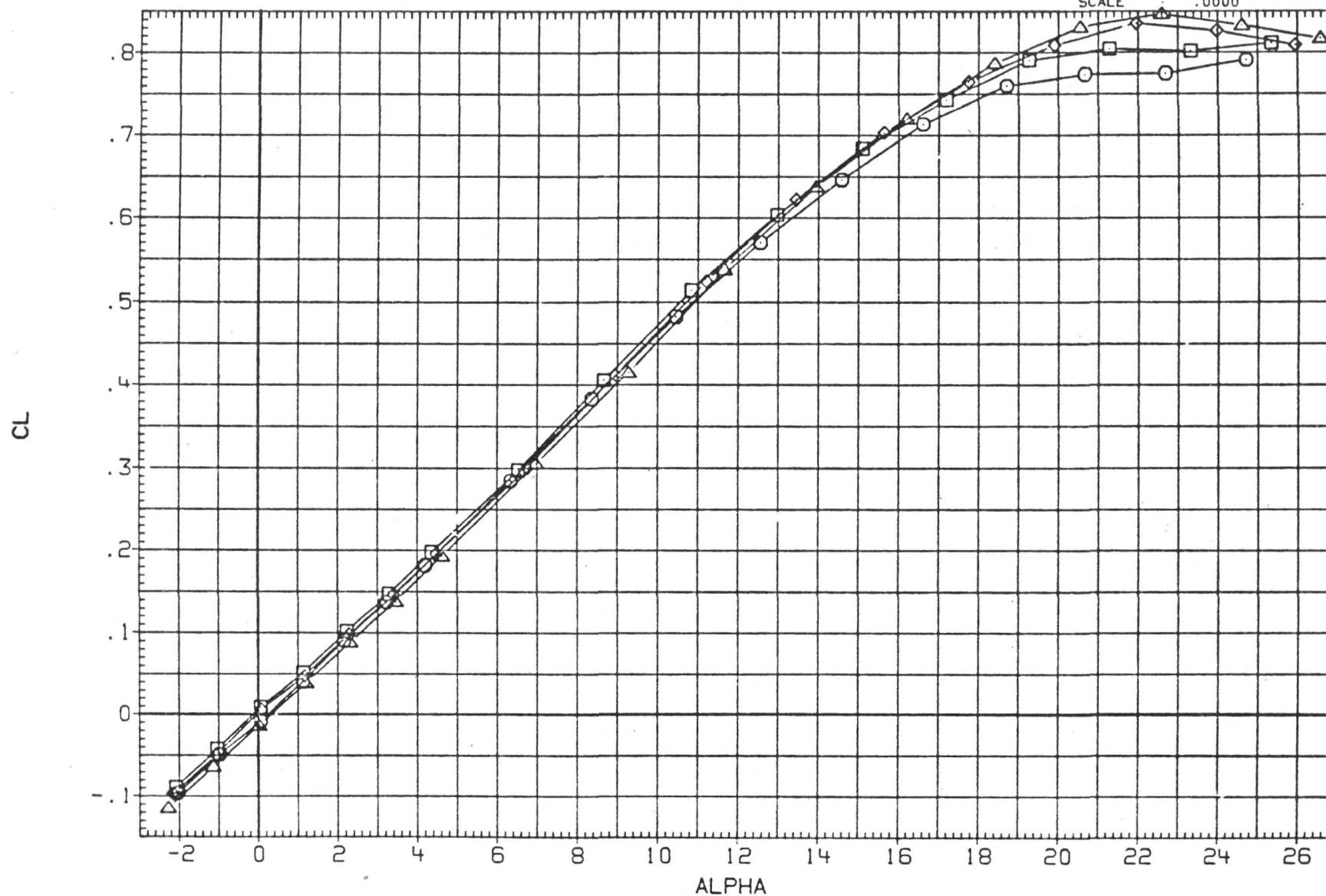


FIGURE 22. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 345
(LEADING EDGE EXTENSION OFF)

(JNC018) WING III 45-45-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES
○	6.516	T/C .080 LESWP 45.000
□	13.068	FILSWP 45.000 TESWP 15.000
◇	19.696	BETA .000 MACH .300
△	26.258	GRITNO 120.000

REFERENCE INFORMATION	
SREF	.0490 SQ. M.
LREF	.1723 METERS
BREF	.3331 METERS
XMRP	.1064 M. XB
YMRP	.0000 M. YB
ZMRP	.0000 M. ZB
SCALE	.0000

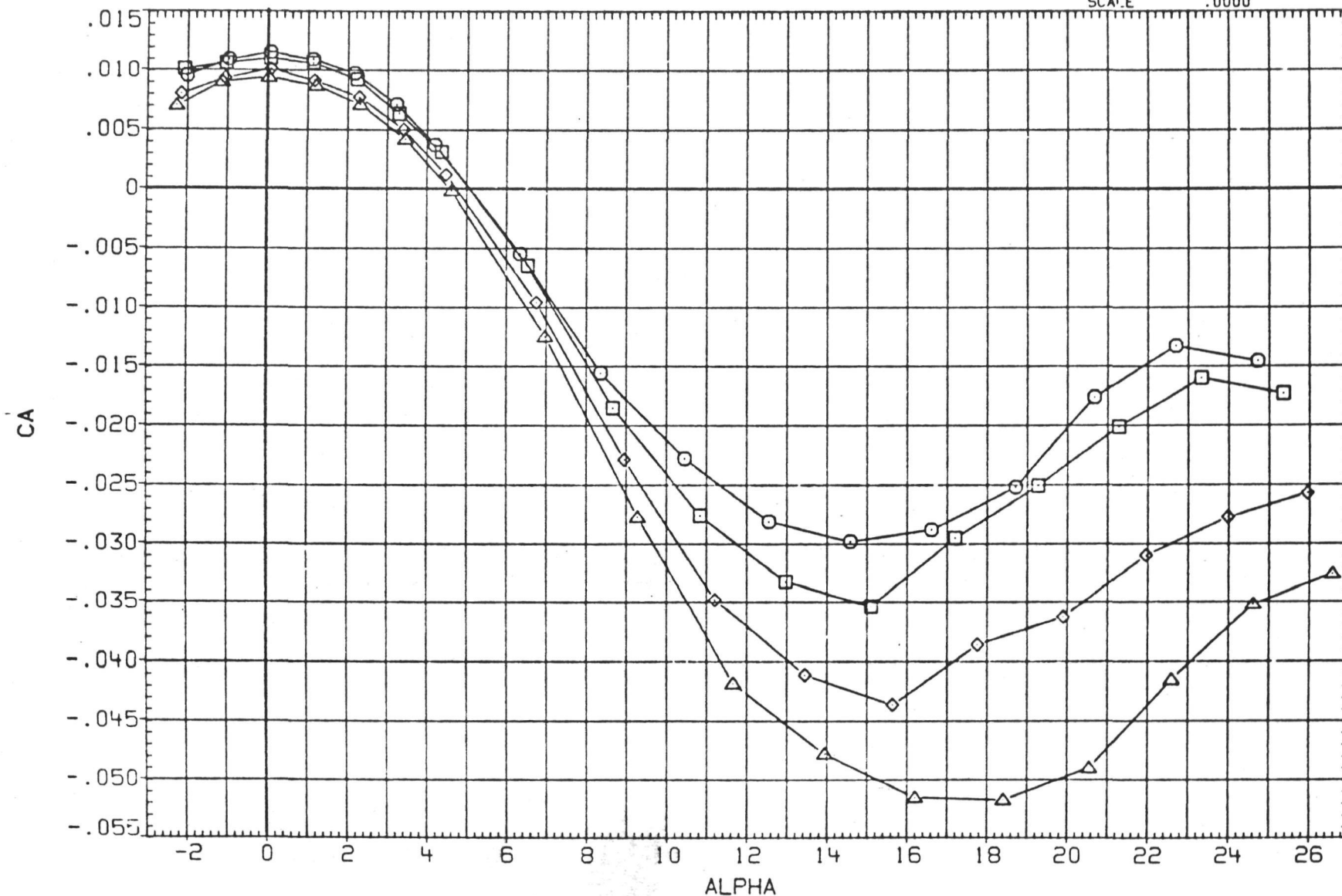


FIGURE 22. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 345
(LEADING EDGE EXTENSION OFF)

SYMBOL	RN/M	PARAMETRIC VALUES
○	6.516	T/C .080 LESWP 45.000
□	13.068	FILSWP 45.000 TESWP 15.000
◇	19.696	BETA .000 MACH .300
△	26.258	GRITNO 120.000

SREF	.0490	SO. M.
LREF	.1723	METERS
BREF	.3331	METERS
XMRP	.1064	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

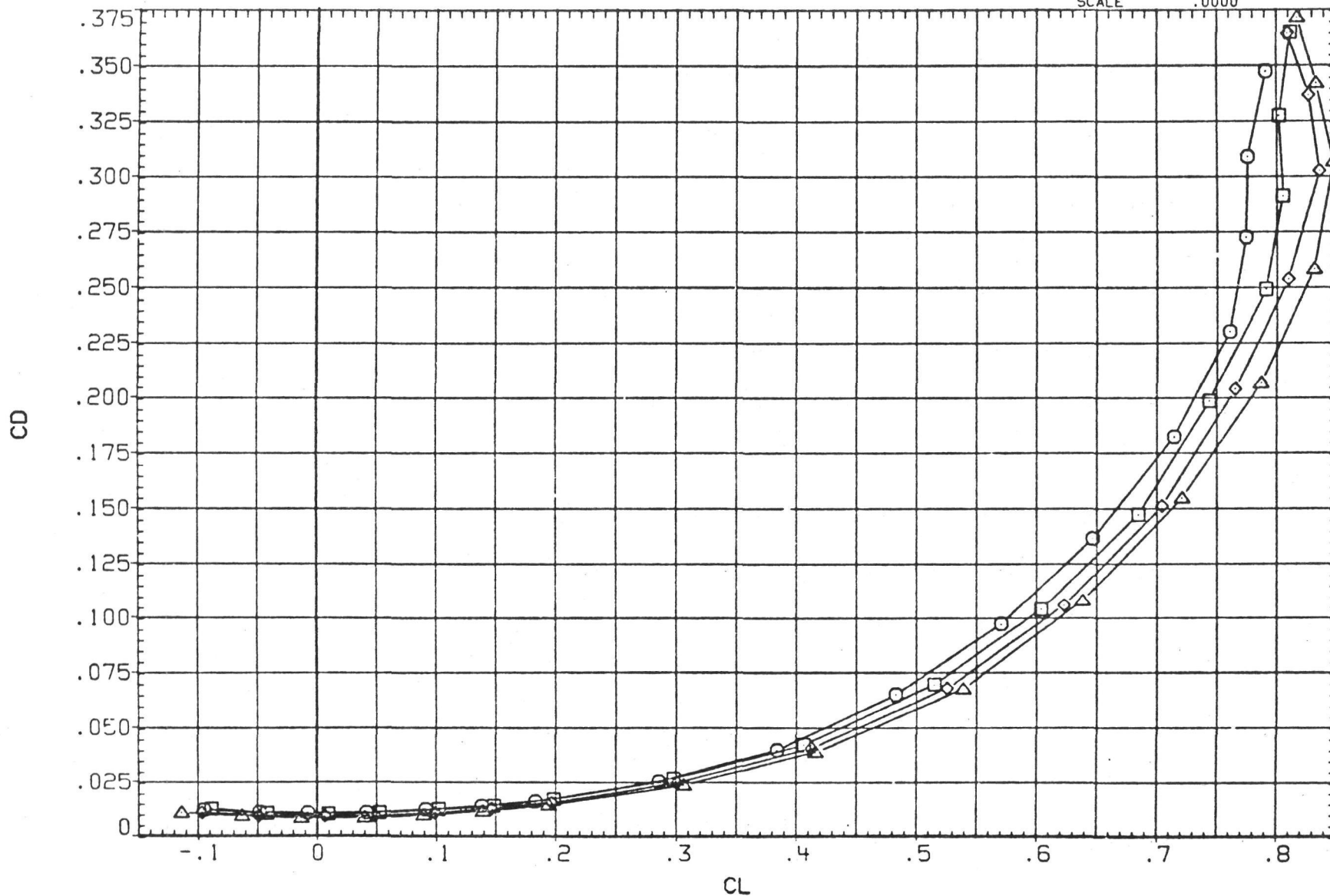


FIGURE 22. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 345
(LEADING EDGE EXTENSION OFF)

(JNC018) WING III 45-45-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES		
○	6.516		.080	LESHP	45.000
□	13.068	FILSWP	45.000	TESHP	15.000
◇	19.696	BETA	.000	MACH	.300
△	26.258	GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0490	SO. M.
LREF	.1723	METERS
BREF	.3331	METERS
XMRP	.1064	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

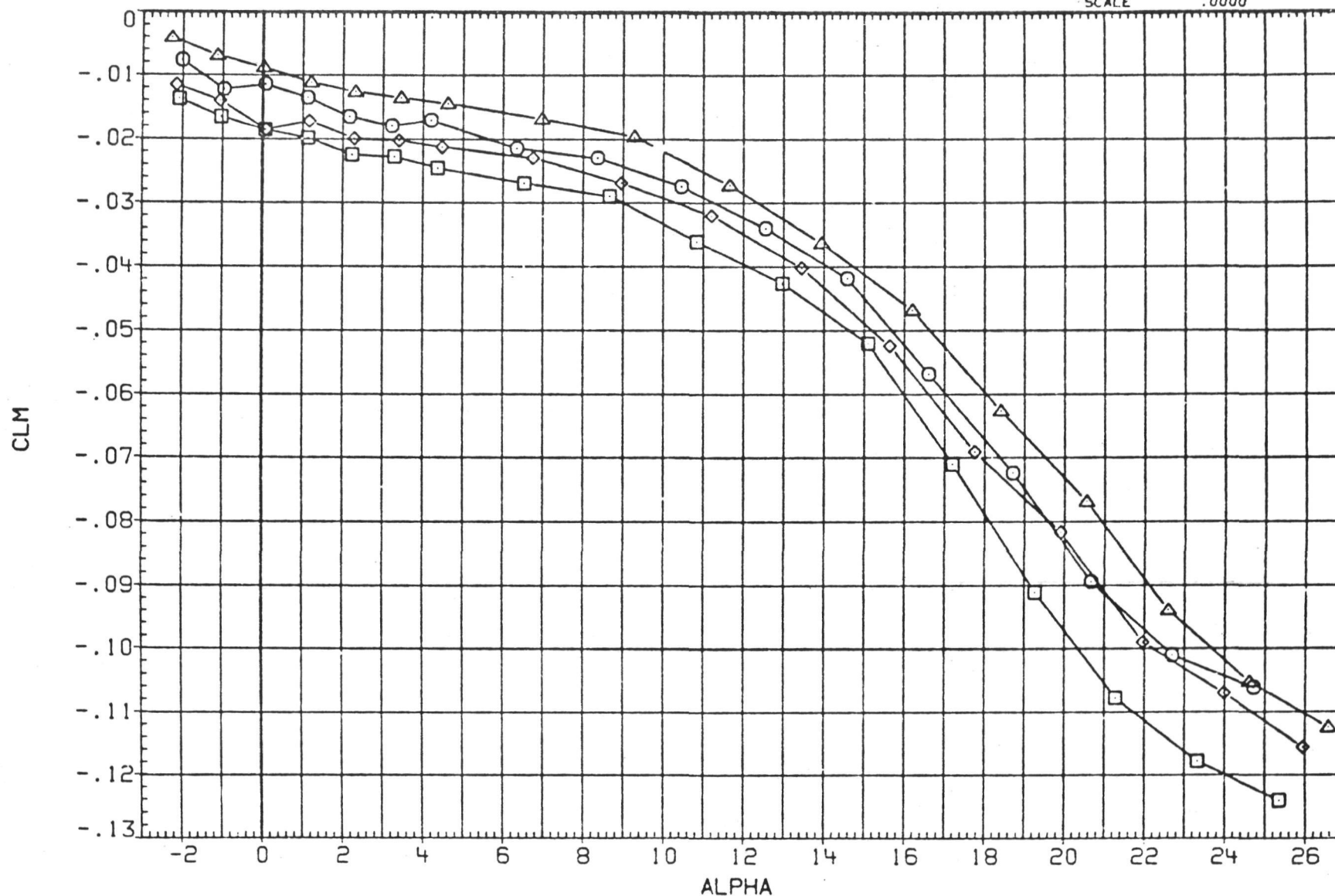


FIGURE 22. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 345
(LEADING EDGE EXTENSION OFF)

SYMBOL	RN/M	PARAMETRIC VALUES
○	6.516	T/C .080 LESWP 45.000
□	13.068	FILSWP 45.000 TESWP 15.000
◇	19.696	BETA .000 MACH .300
△	26.258	GRITNO 120.000

SREF	.0490	SQ. M.
LREF	.1723	METERS
BREF	.3331	METERS
XMRP	.1064	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

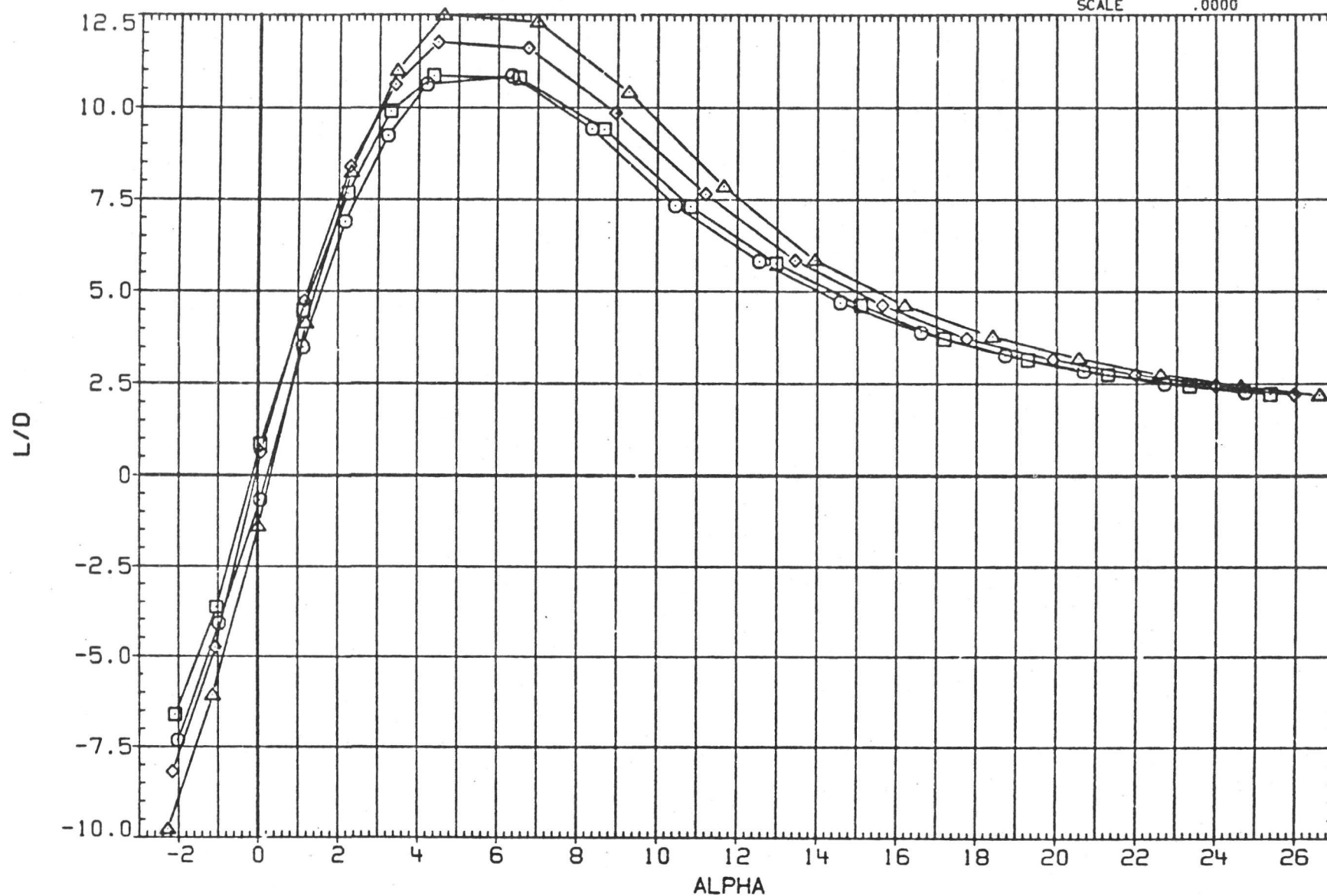


FIGURE 22. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 345
(LEADING EDGE EXTENSION OFF)

(JNC019) WING III 45-80-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	13.094	T/C	.080	LESHP	45.000
□	19.634	FILSWP	80.000	TESHP	15.000
◇	26.228	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION		
SREF	.0709	SQ. M.
LREF	.3235	METERS
BREF	.3331	METERS
XMRP	.3166	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

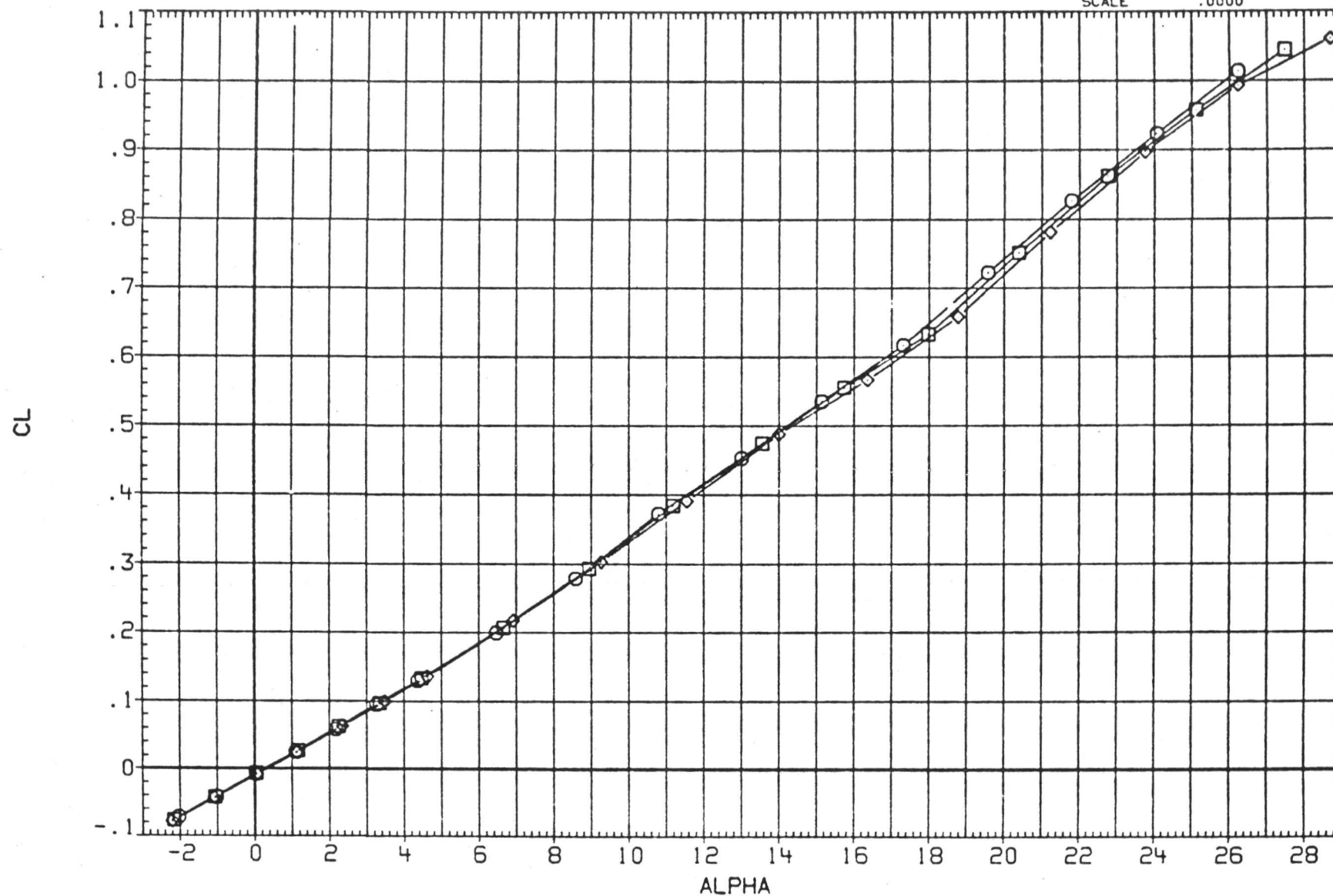


FIGURE 23. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 380

SYMBOL

RN/M

PARAMETRIC VALUES

○

13.094

T/C

.080

LESWP

45.000

□

19.634

FILSWP

80.000

TESWP

15.000

◇

26.228

BETA

.000

MACH

.300

GRITNO

120.000

SREF	.0709	SQ. M.
LREF	.3235	METERS
BREF	.3331	METERS
XMRP	.3166	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

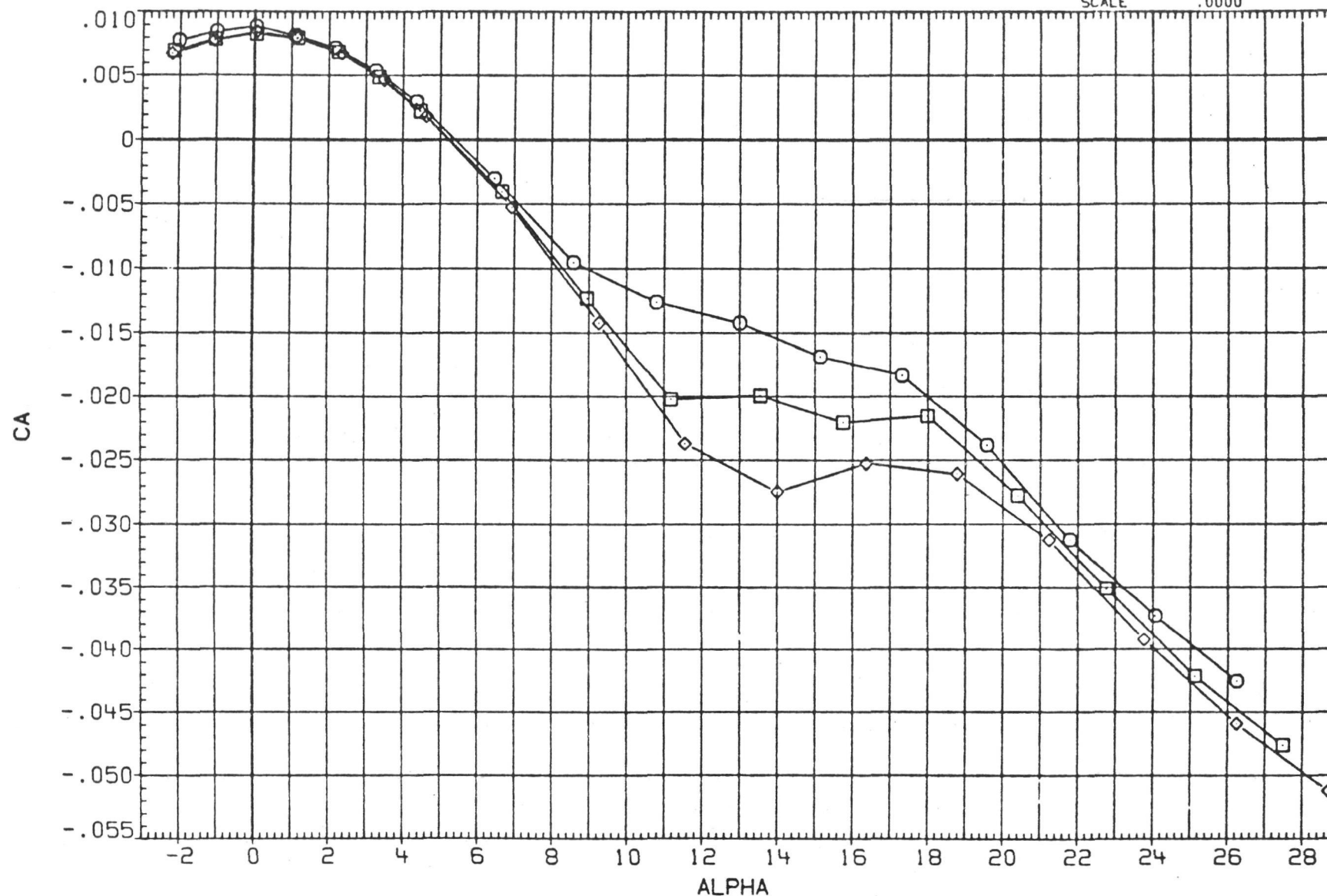


FIGURE 23. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 380

(JNC019) WING III 45-80-0008

AMES 12-086 (LA65)

REFERENCE INFORMATION

SYMBOL	RN/M	PARAMETRIC VALUES			
○	13.094	T/C	.080	LESHP	45.000
□	19.634	FILSWP	80.000	TESWP	15.000
◇	26.228	BETA	.000	MACH	.300
		GRITNO	120.000		

SREF	.0709	SQ. M.
LREF	.3235	METERS
BREF	.3331	METERS
XMRP	.3166	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

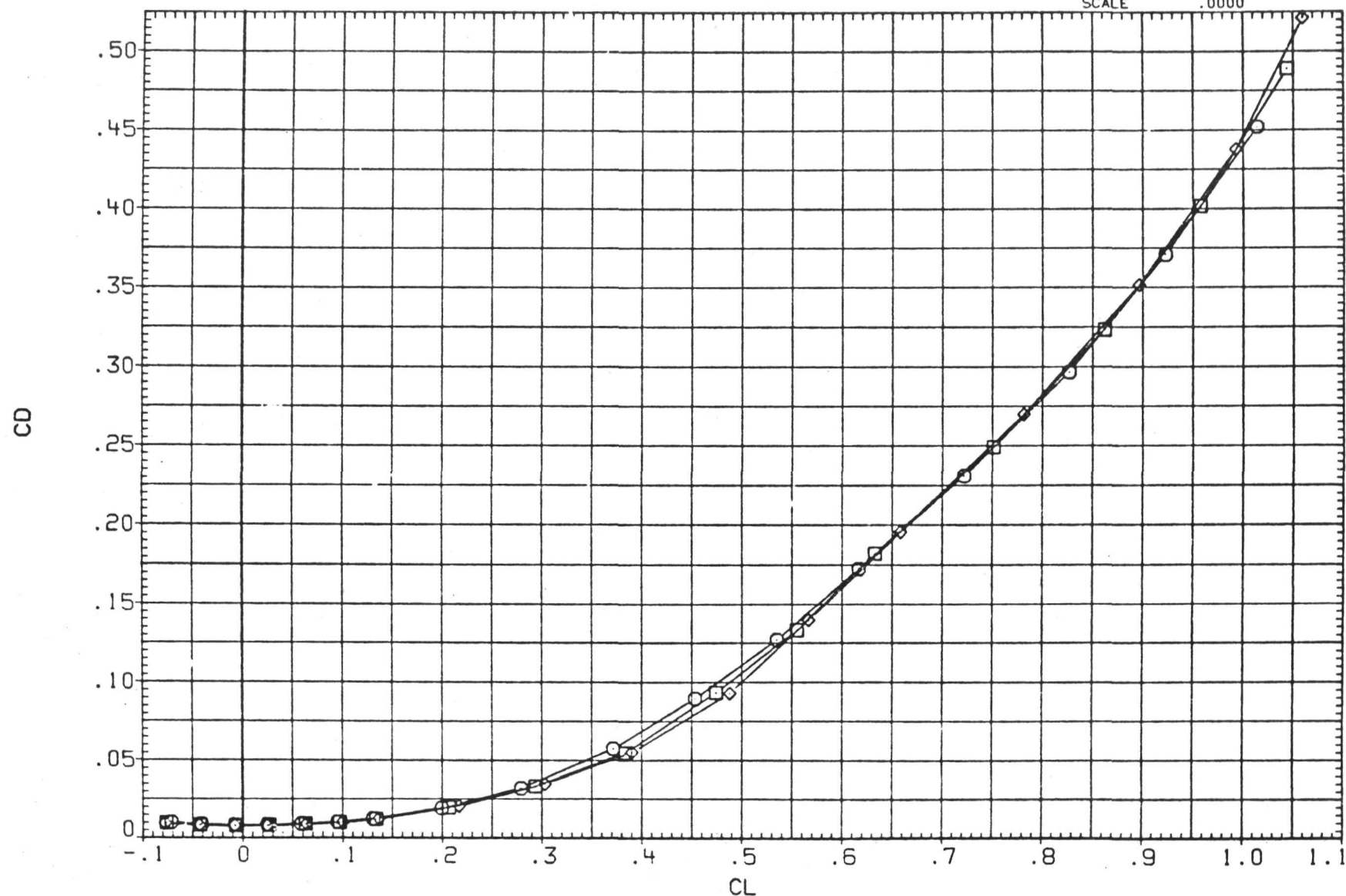


FIGURE 23. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 380

(JNC019)

WING III 45-80-0008

AMES 12-086 (LA65)

REFERENCE INFORMATION

SYMBOL

RN/M

PARAMETRIC VALUES

○

13.094

T/C

.080

LESWP

45.000

□

19.634

FILSWP

80.000

TESWP

15.000

◇

26.228

BETA

.000

MACH

.300

GRITNO

120.000

SREF

.0709

SQ. M.

LREF

.3235

METERS

BREF

.3331

METERS

XMRP

.3166

M. XB

YMRP

.0000

M. YB

ZMRP

.0000

M. ZB

SCALE

.0000



FIGURE 23. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 380

(JNC019) WING III 45-80-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES	LESWP	45.000
○	13.094	FILSWP	.080	TESWP	15.000
□	19.634	BETA	.000	MACH	.300
◇	26.228	GRITNO	120.000		

REFERENCE INFORMATION		
SREF	.0709	SQ. M.
LREF	.3235	METERS
BREF	.3331	METERS
XMRP	.3166	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

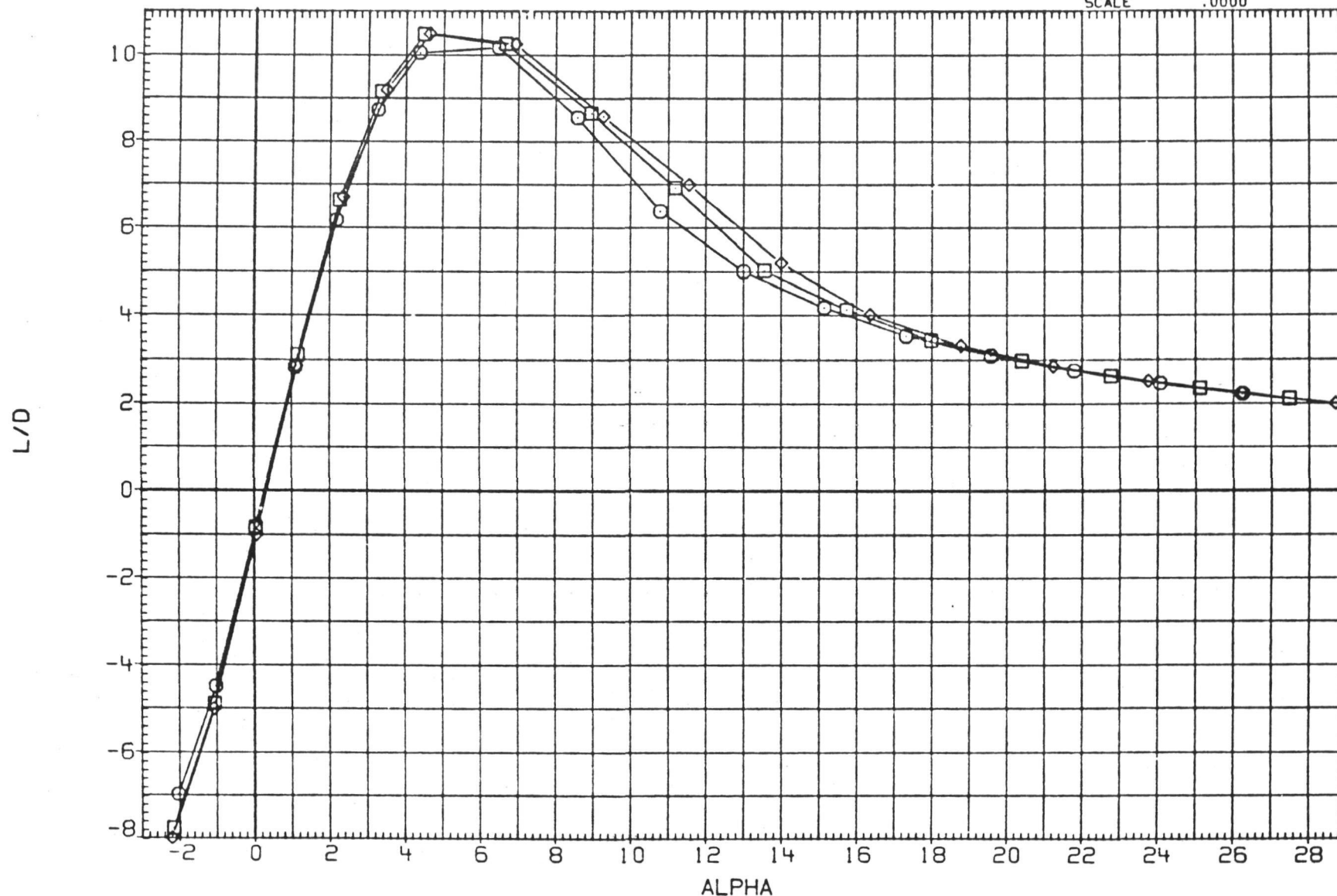


FIGURE 23. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 380

(JNC020) WING III 45-75-0008 AMES 12-086 (LA65)

SYMBOL		PARAMETRIC VALUES			
○	13.029	T/C	.080	LESHP	45.000
□	19.686	FILSWP	75.000	TESHP	15.000
◇	26.130	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION		
SREF	.0618	SQ. M.
LREF	.2554	METERS
BREF	.3331	METERS
XMRP	.2337	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

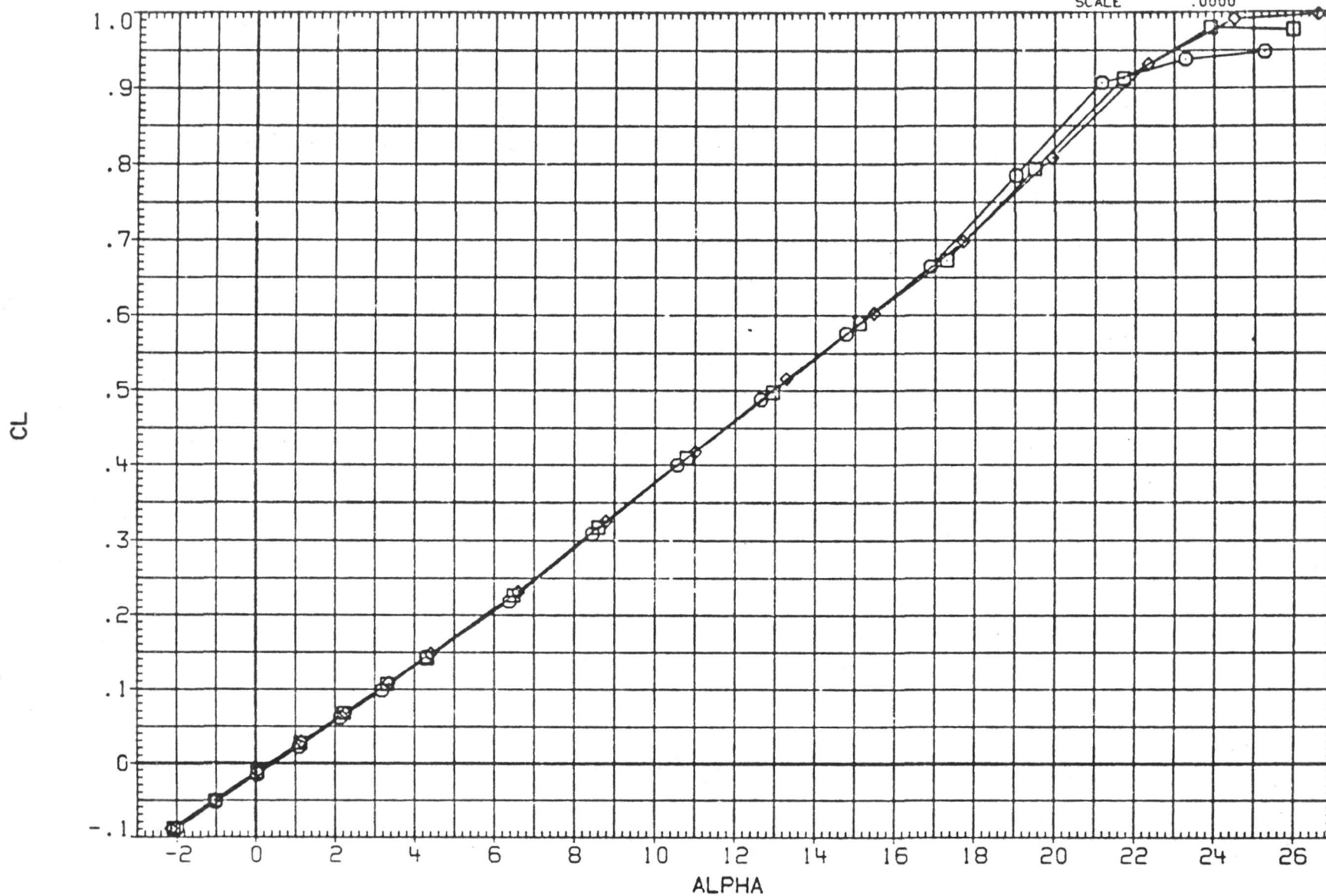


FIGURE 24. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 375

(JNC020) WING III 45-75-0008

AMES 12-086 (LA65)

REFERENCE INFORMATION

SYMBOL	RN/M	PARAMETRIC VALUES			
○	13.029	T/C	.080	LESWP	45.000
□	19.686	FILSWP	75.000	TESWP	15.000
◇	26.130	BETA	.000	MACH	.300
		GRITNO	120.000		

SREF	.0618	SO. M.
LREF	.2554	METERS
BREF	.3331	METERS
XMRP	.2337	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

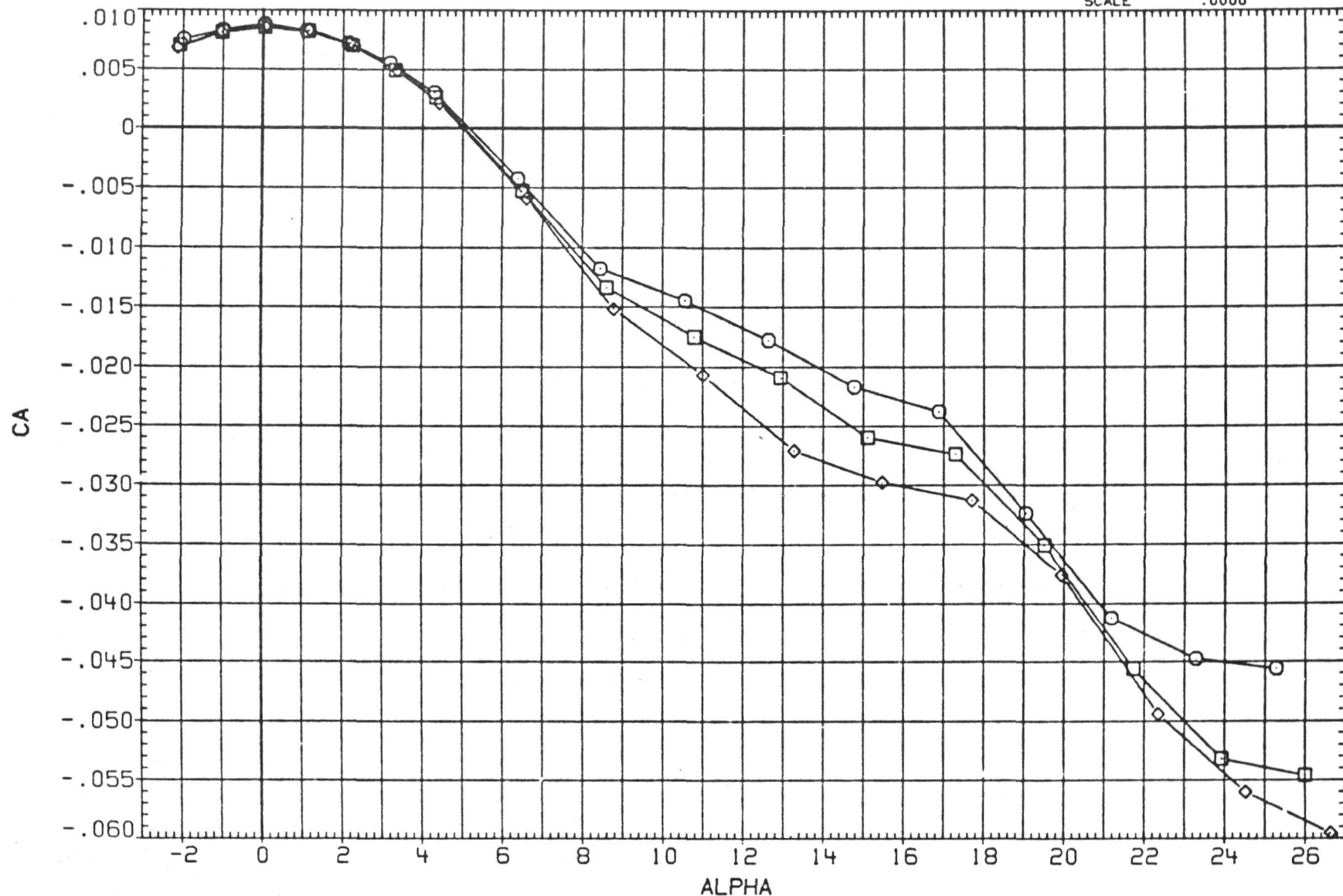


FIGURE 24. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 375

SYMBOL	RN/M	PARAMETRIC VALUES		
○	13.029	T/C	.080	LESWP 45.000
□	19.686	FILSWP	75.000	TESWP 15.000
◇	26.130	BETA	.000	MACH .300
		GRITNO	120.000	

SREF	.0618	SQ. M.
LREF	.2554	METERS
BREF	.3331	METERS
XMRP	.2337	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

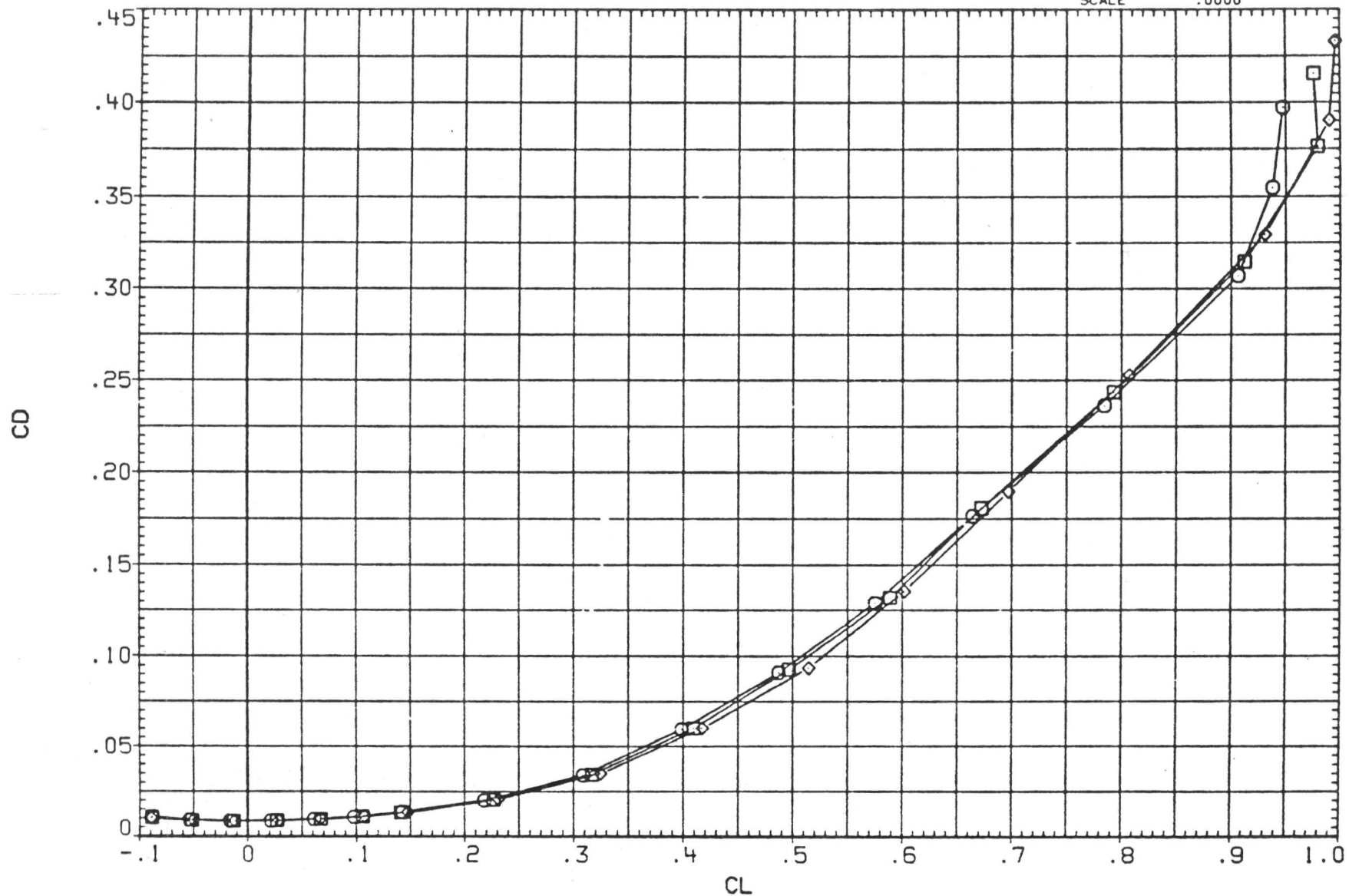


FIGURE 24. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 375

(JNCG20) WING III 45-75-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 13.029 .080 LSWP 45.000
 □ 19.686 FILSWP 75.000 TESWP 15.000
 ◇ 26.130 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0618 SQ. M.
 LREF .2554 METERS
 BREF .3331 METERS
 XMRP .2337 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

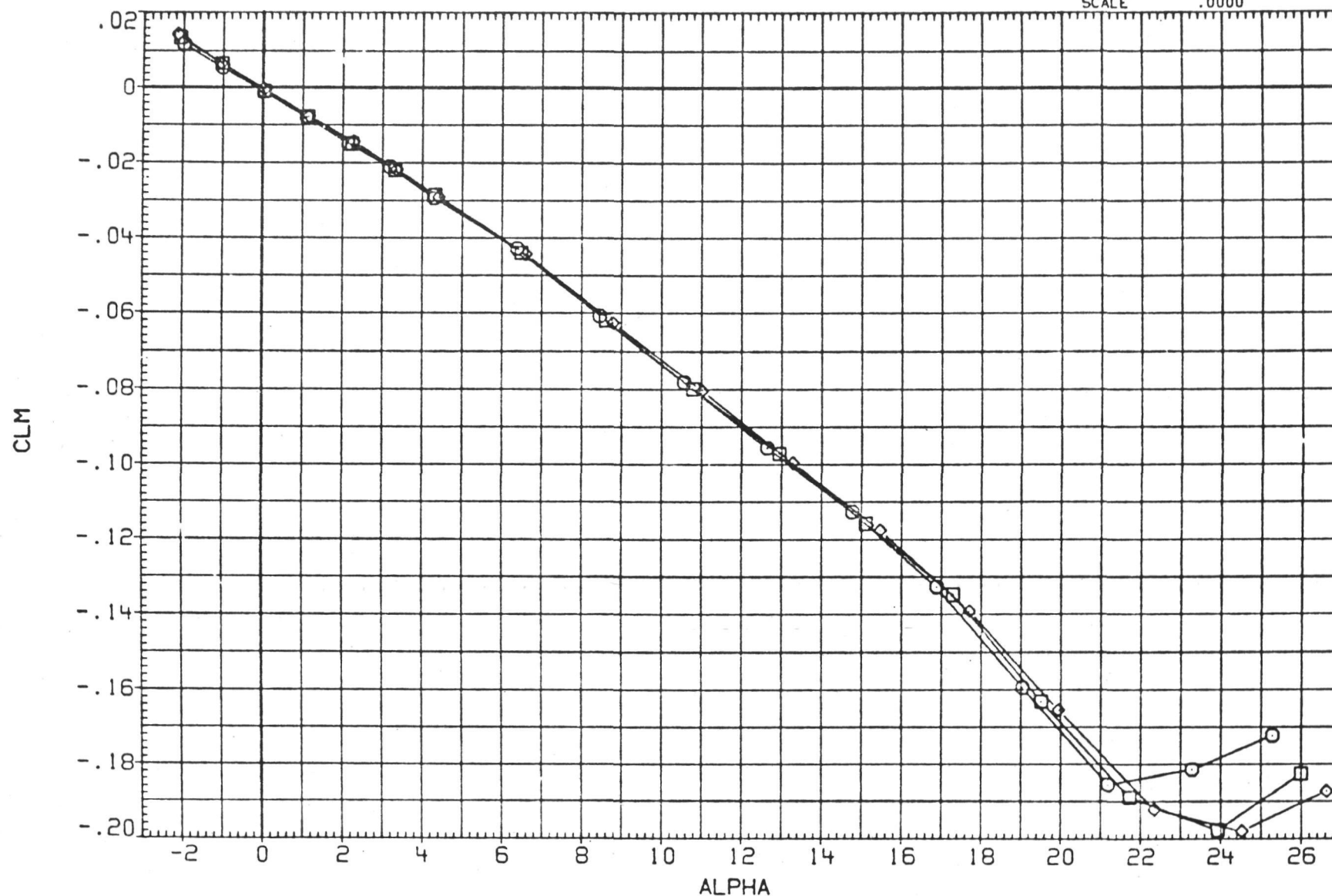


FIGURE 24. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 375

SYMBOL

RN/M

PARAMETRIC VALUES

○

13.029

T/C

LESWP

45.000

□

19.686

FILSWP

75.000

TESWP

15.000

◇

25.130

BETA

.000

MACH

.300

GRITNO

120.000

SREF .0618

SQ. M.

LREF .2554

METERS

BREF .3331

METERS

XMRP .2337

M. XB

YMRP .0000

M. YB

ZMRP .0000

M. ZB

SCALE .0000

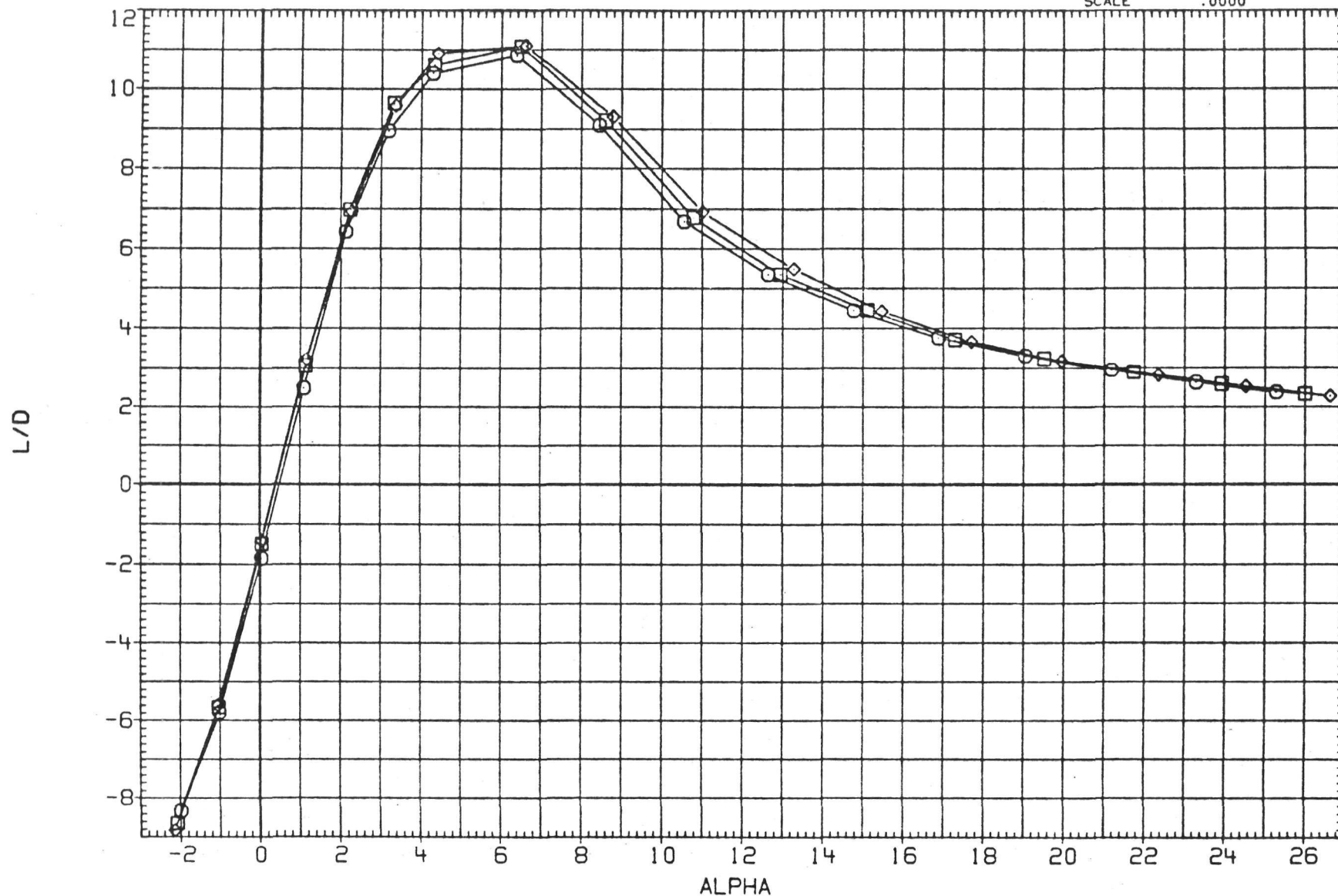


FIGURE 24. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 375

(JNC021) WING III 45-70-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	19.679	T/C	.090	LESWP	45.000
□	26.150	FILSWP	70.000	TESWP	15.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION		
SREF	.0572	SQ. M.
LREF	.2233	METERS
BREF	.3331	METERS
XMRP	.1896	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

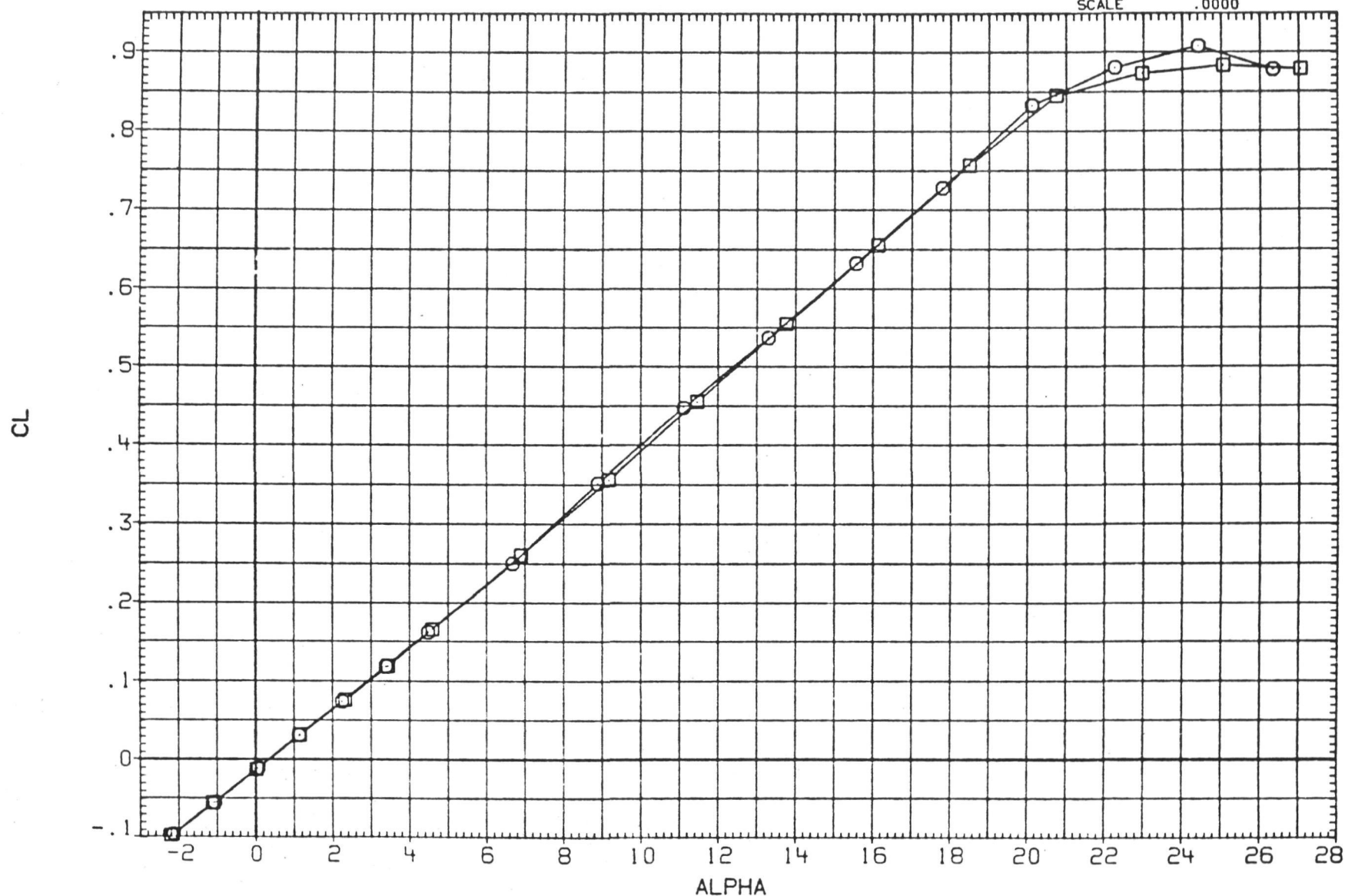


FIGURE 25. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 370

(JNC021) WING III 45-70-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 19.679 FILSWP .080 LESWP 45.000
 □ 26.150 BETA 70.000 TESWP 15.000
 GRITNO 120.000 MACH .300

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0572 SQ. M.
 LREF .2233 METERS
 BREF .3331 METERS
 XMRP .1896 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

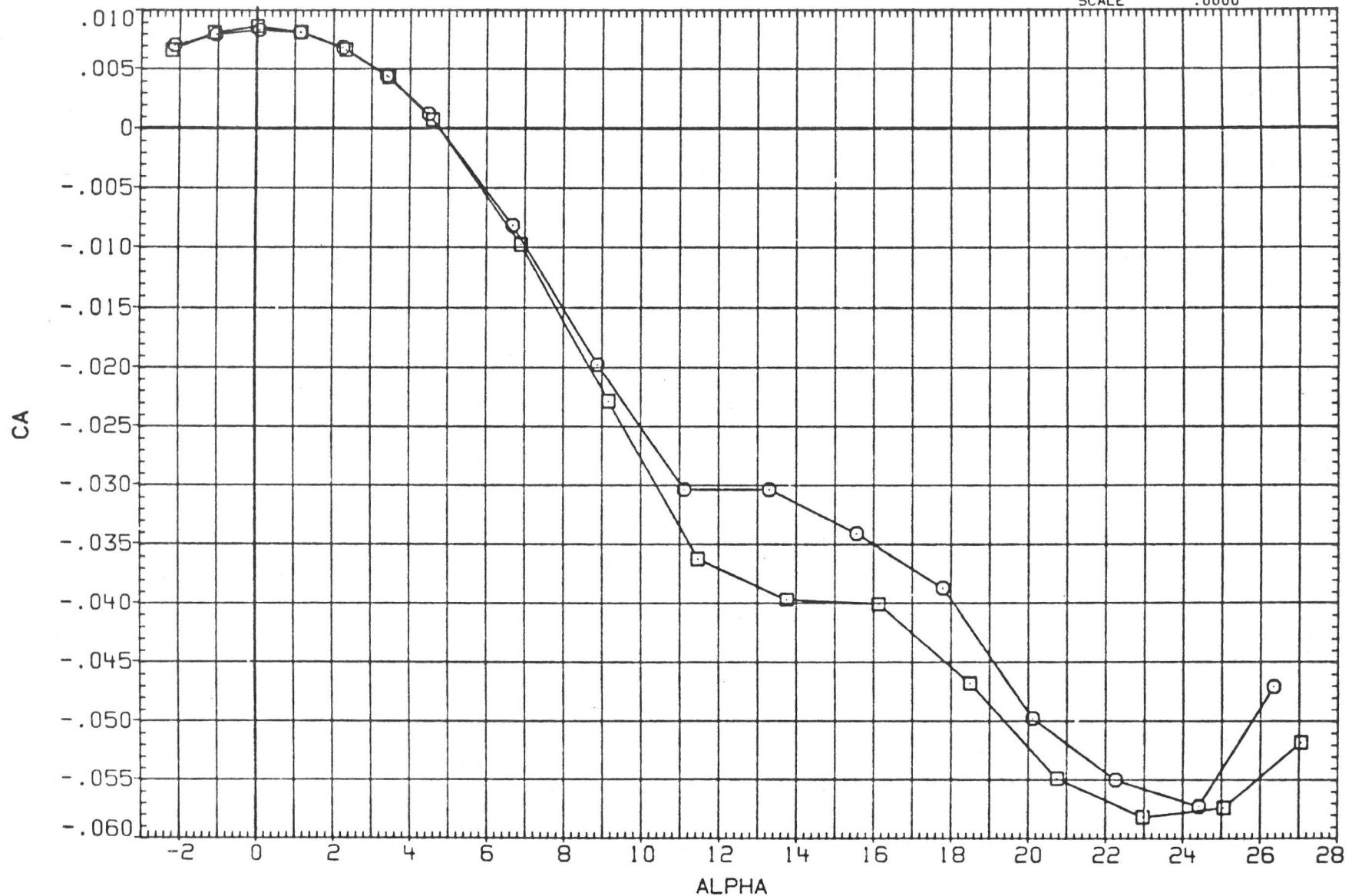


FIGURE 25. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 370

(JNC021) WING III 45-70-0008
 SYMBOL RN/M T/C
 ○ 19.679 .080
 □ 26.150 70.000
 BETA .000
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0572 SQ. M.
 LREF .2233 METERS
 BREF .3331 METERS
 XMRP .1896 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

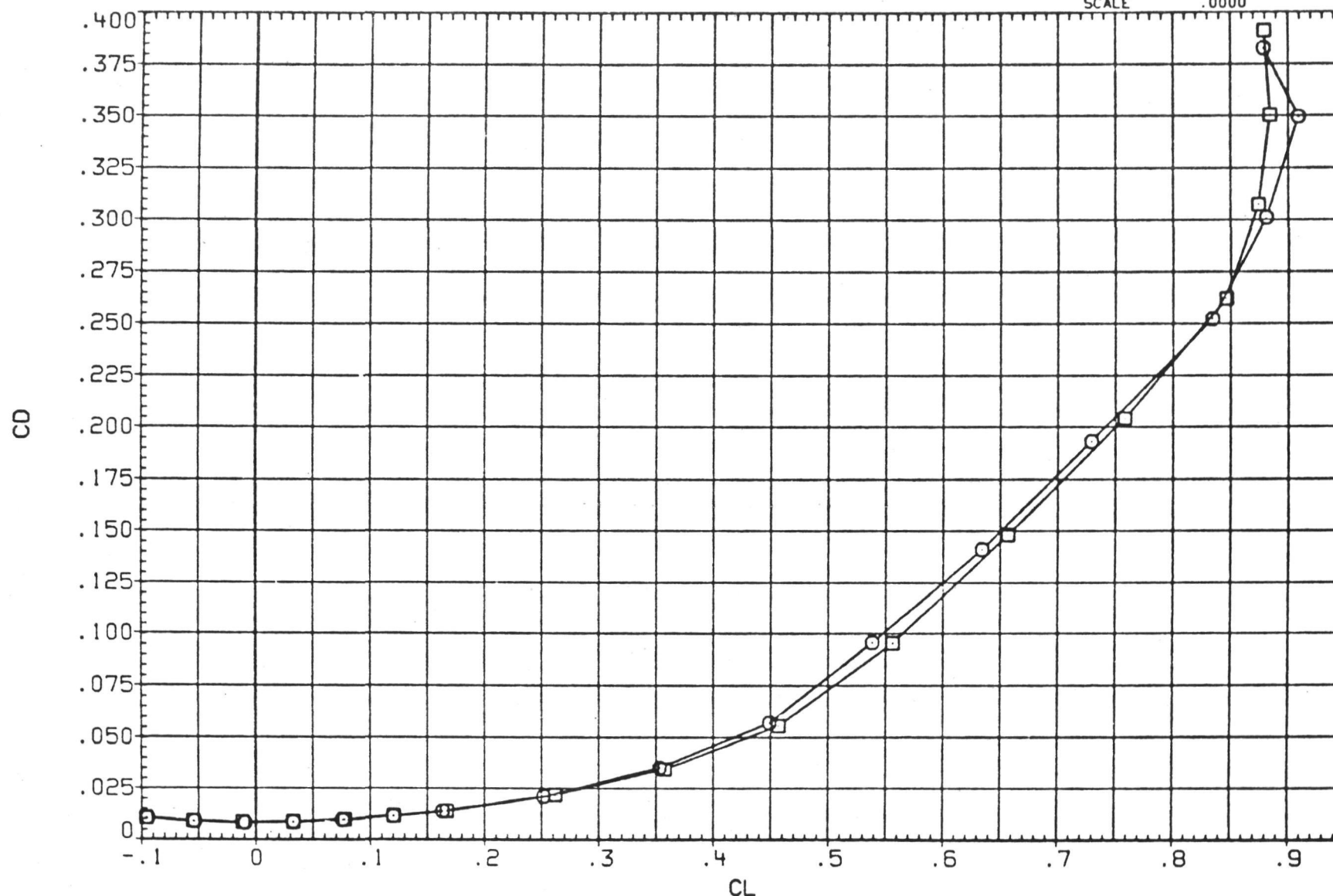


FIGURE 25. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 370

(JNC021) WING III 45-70-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 O 19.679 LESWP 45.000
 □ 26.150 FILSWP 70.000
 BETA .000 TESWP 15.000
 GRITNO 120.000 MACH .300

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0572 SQ. M.
 LREF .2233 METERS
 BREF .3331 METERS
 XMRP .1896 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000



FIGURE 25. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 370

(JNC021) WING III 45-70-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	19.679	T/C	.080	LESHP	45.000
□	26.150	FILSWP	70.000	TESHP	15.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION		
SREF	.0572	SQ. M.
LREF	.2233	METERS
BREF	.3331	METERS
XMRP	.1896	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

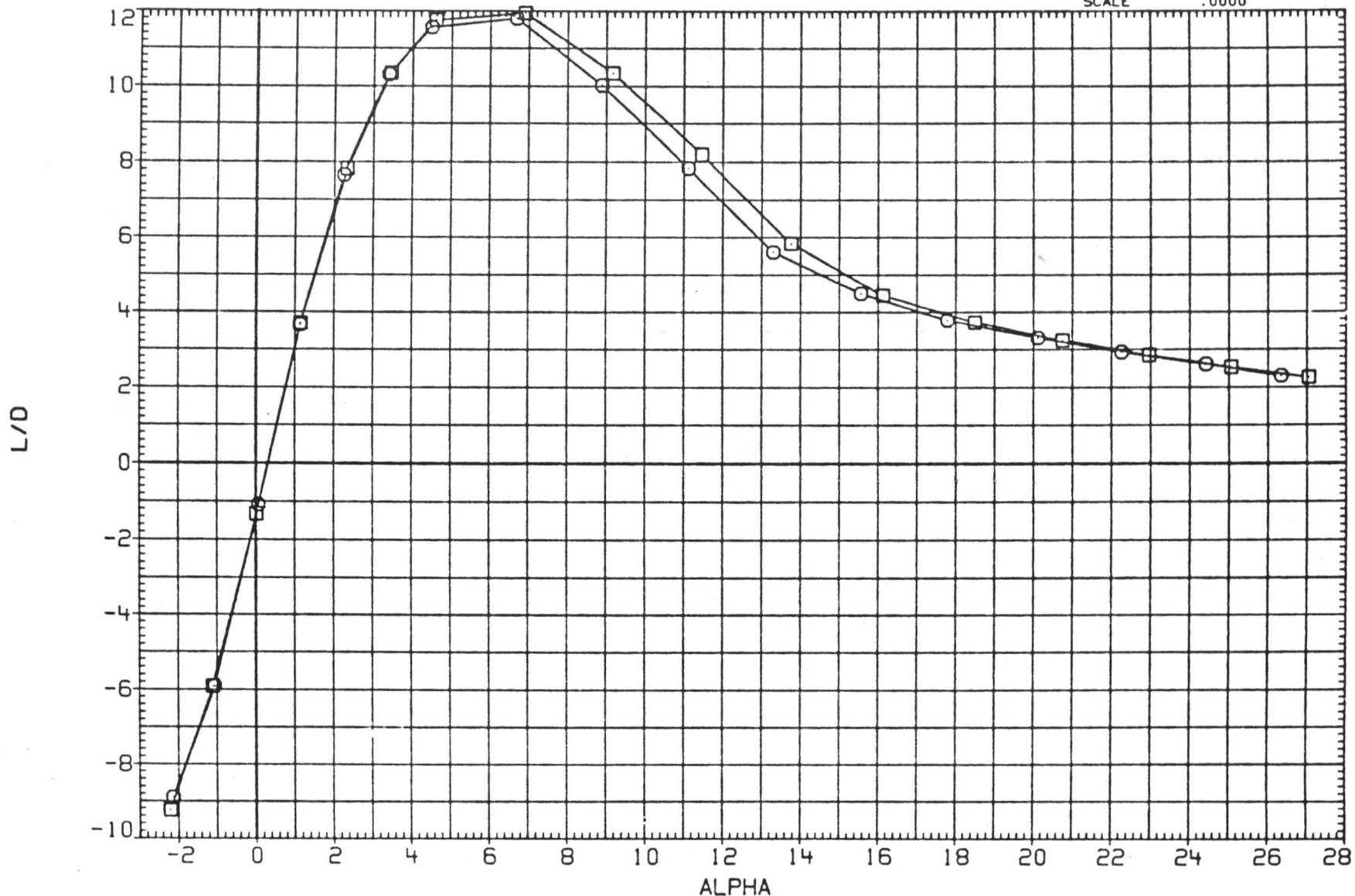


FIGURE 25. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 370

(JNC022) WING III 45-65-0008 AMES 12-086 (LA65)

SYMBOL		PARAMETRIC VALUES			
○	19.545	T/C	.080	LESWP	45.000
□	26.104	FILSWP	65.000	TESWP	15.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION	
SRCF	.0544 SQ. M.
LREF	.2047 METERS
BREF	.3331 METERS
XMRP	.1617 M. XB
YMRP	.0000 M. YB
ZMRP	.0000 M. ZB
SCALE	.0000

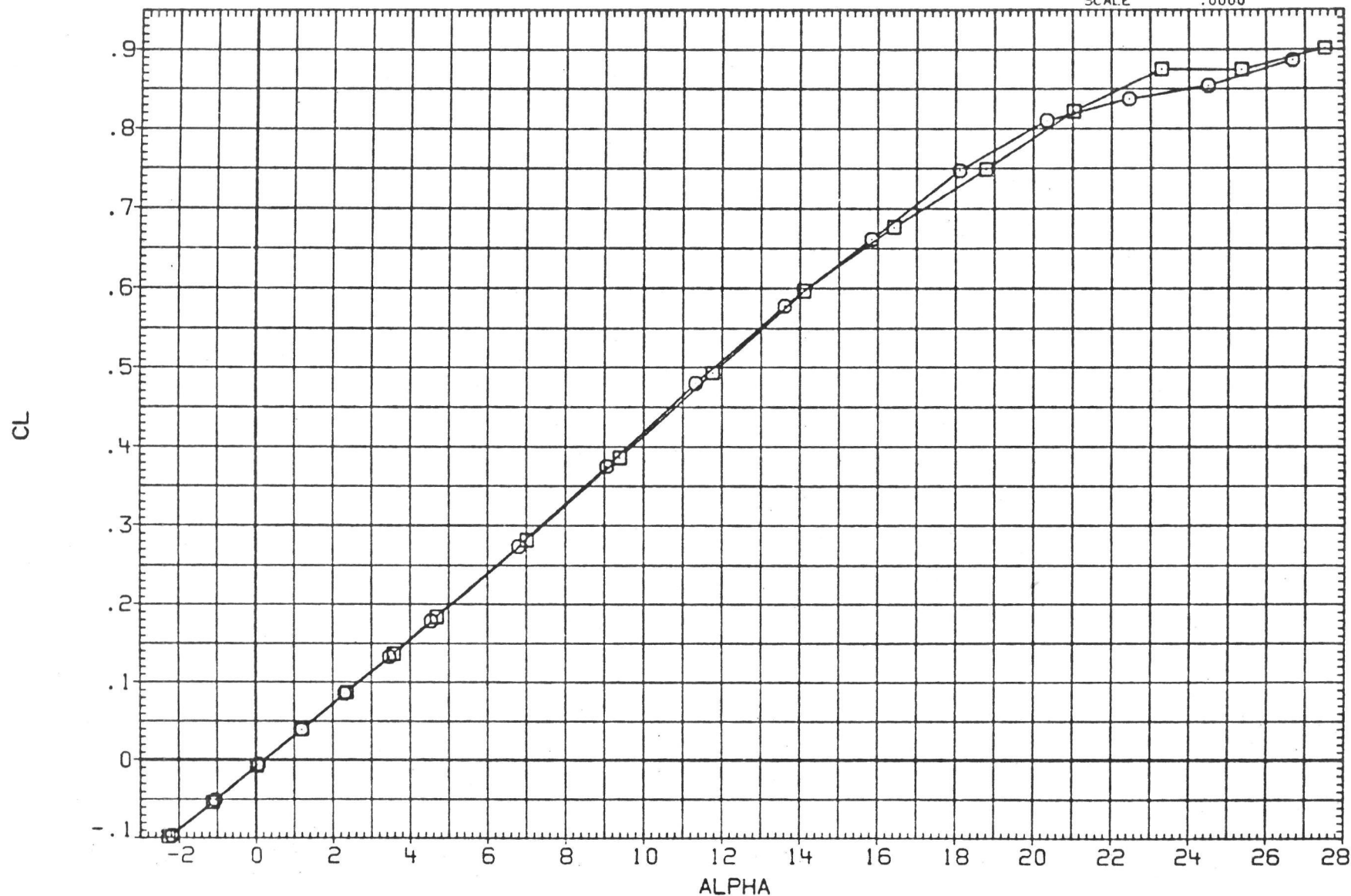


FIGURE 26. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 365

(JNC022) WING III 45-65-0008

AMES 12-086 (LA65)

SYMBOL RN/M PARAMETRIC VALUES

○	19.545	T/C	.080	LESWP	45.000
□	26.104	FILSWP	65.000	TESWP	15.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0544	SO. M.
LREF	.2047	METERS
BREF	.3331	METERS
XMRP	.1617	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

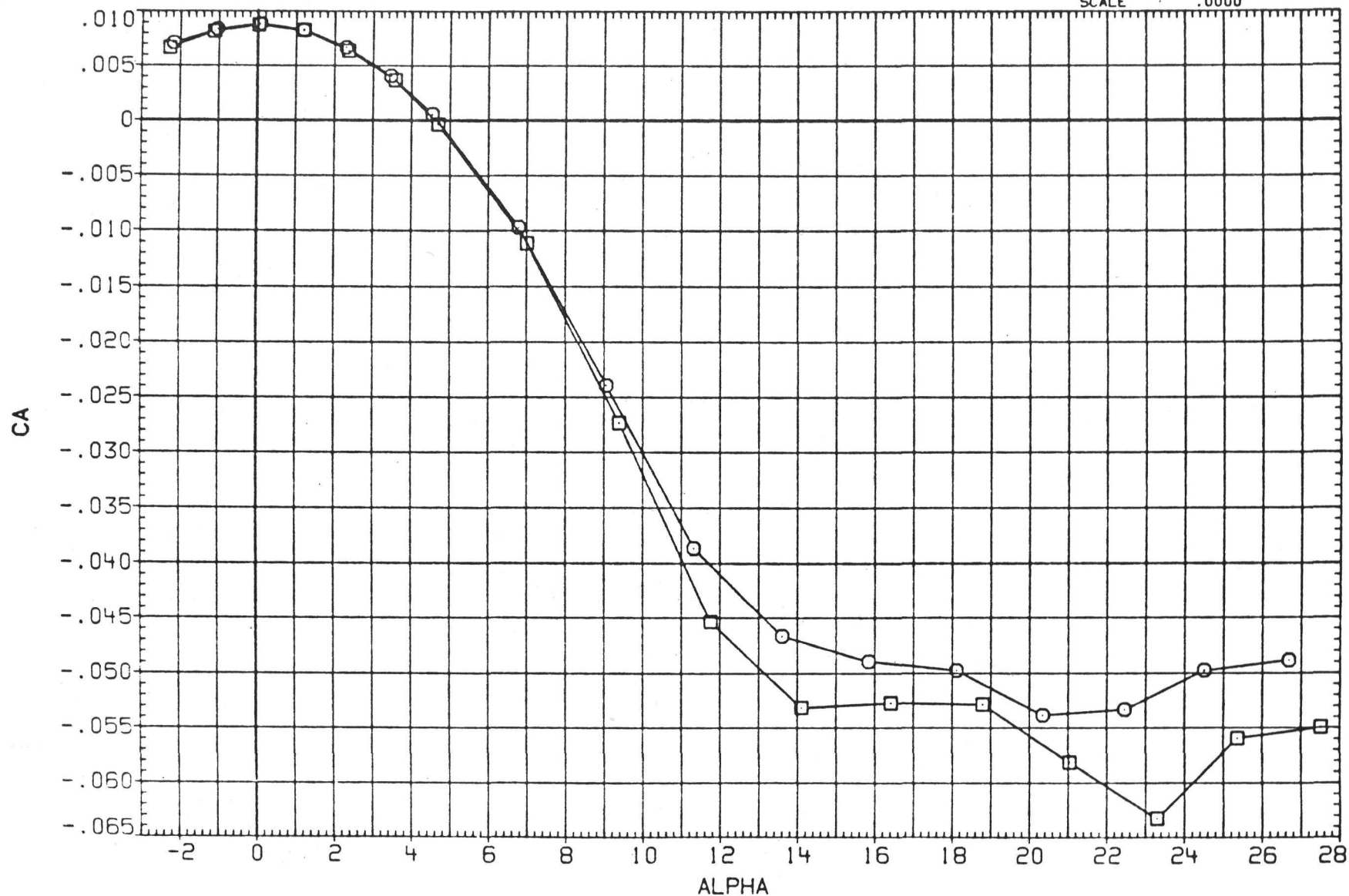


FIGURE 26. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 365

SYMBOL	RN/M	PARAMETRIC VALUES			
○	19.545	T/C	.080	LESWP	45.000
□	26.104	FILSWP	65.000	TESWP	15.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

SREF	.0544	SQ. M.
LREF	.2047	METERS
BREF	.3331	METERS
XMRP	.1617	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

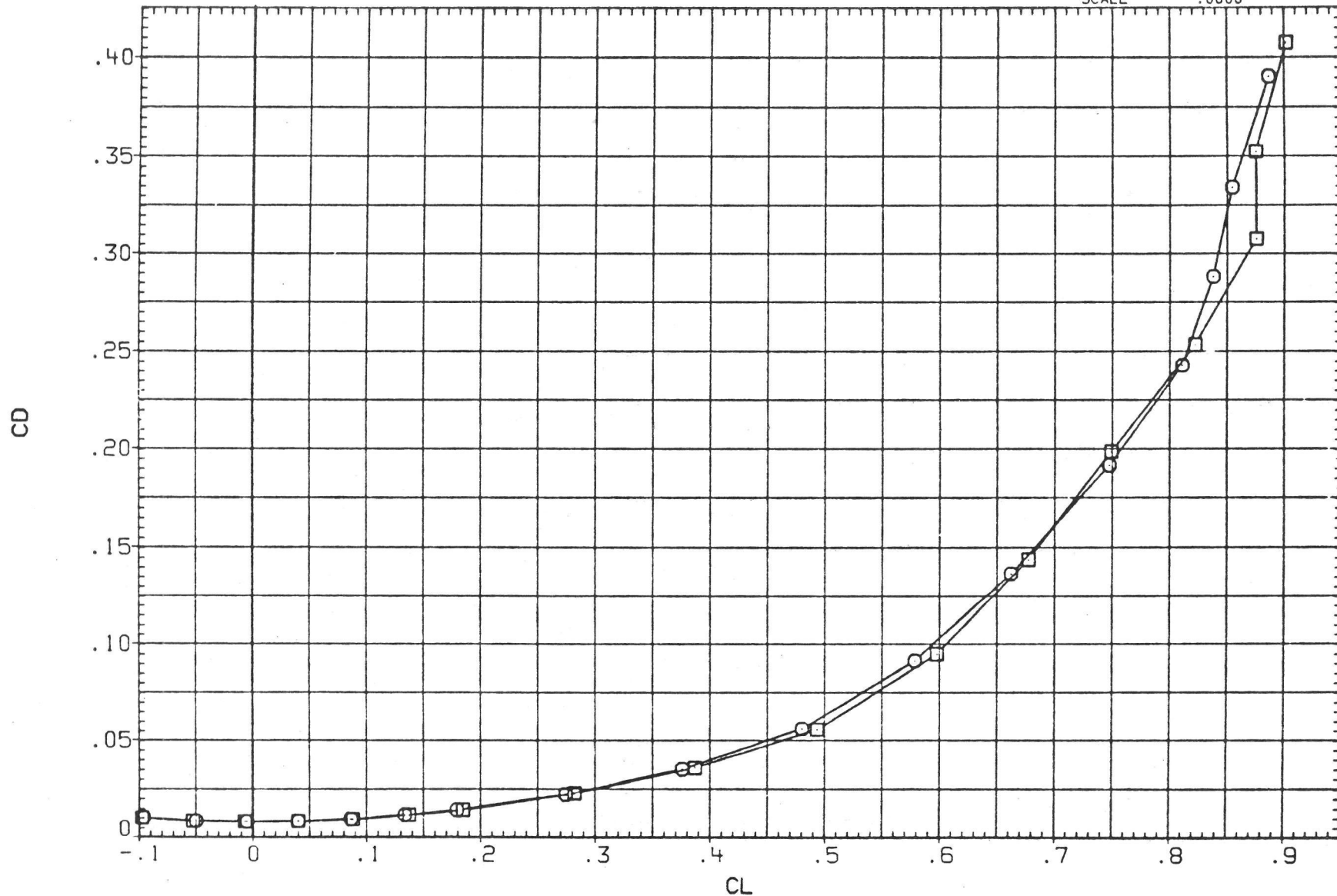


FIGURE 26. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 365

(JNC022) WING III 45-65-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	19.545	T/C	.080	LESWP	45.000
□	26.104	FILSWP	65.000	TESWP	15.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION		
SREF	.0544	SQ. M.
LREF	.2047	METERS
BREF	.3331	METERS
XMRP	.1617	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

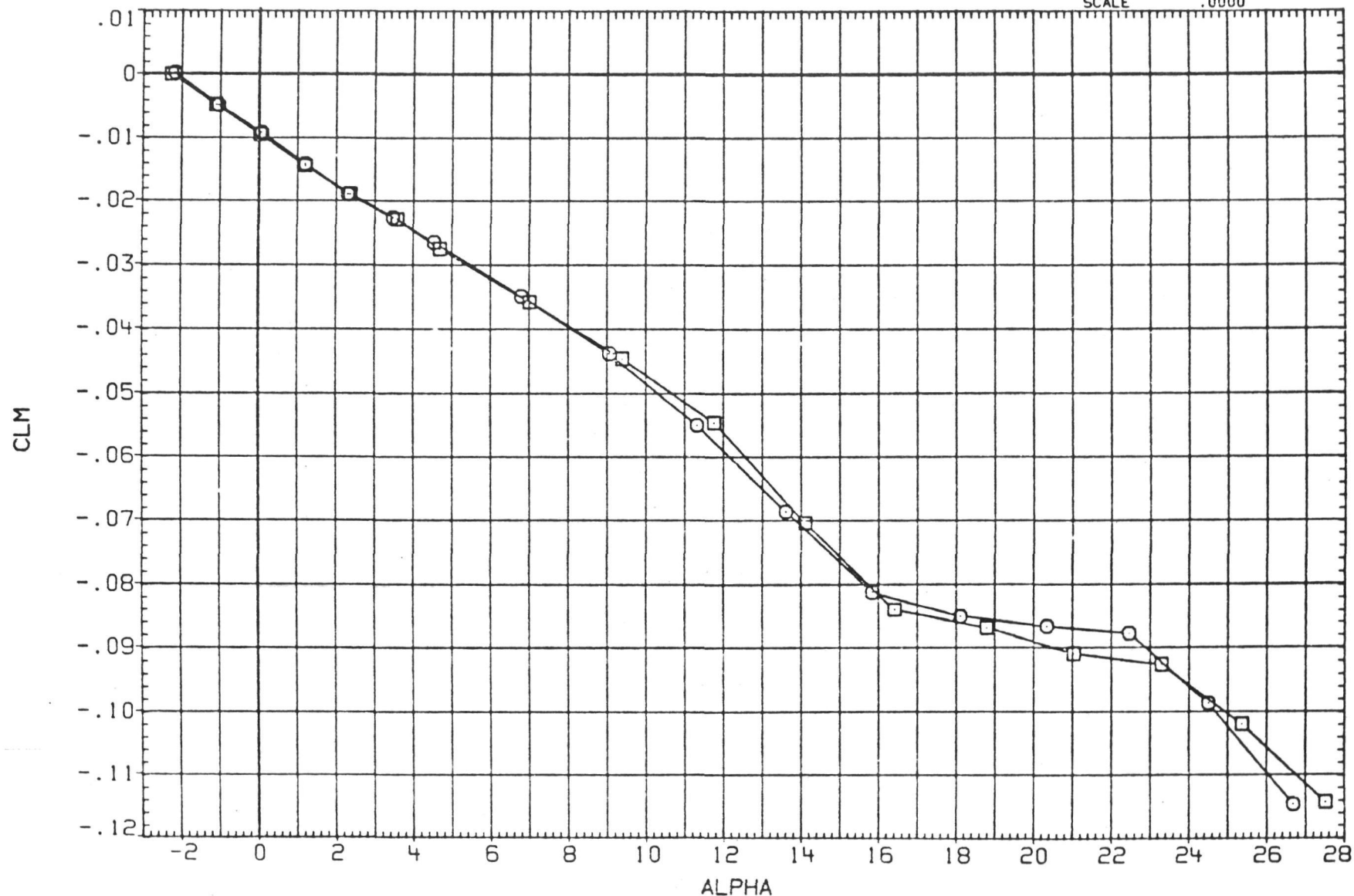


FIGURE 26. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 365

SYMBOL	RN/M	PARAMETRIC VALUES			
○	19.545	T/C	.080	LESWP	45.000
□	26.104	FILSWP	65.000	TESWP	15.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

SREF	.0544	SQ. M.
LREF	.2047	METERS
BREF	.3331	METERS
XMRP	.1617	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

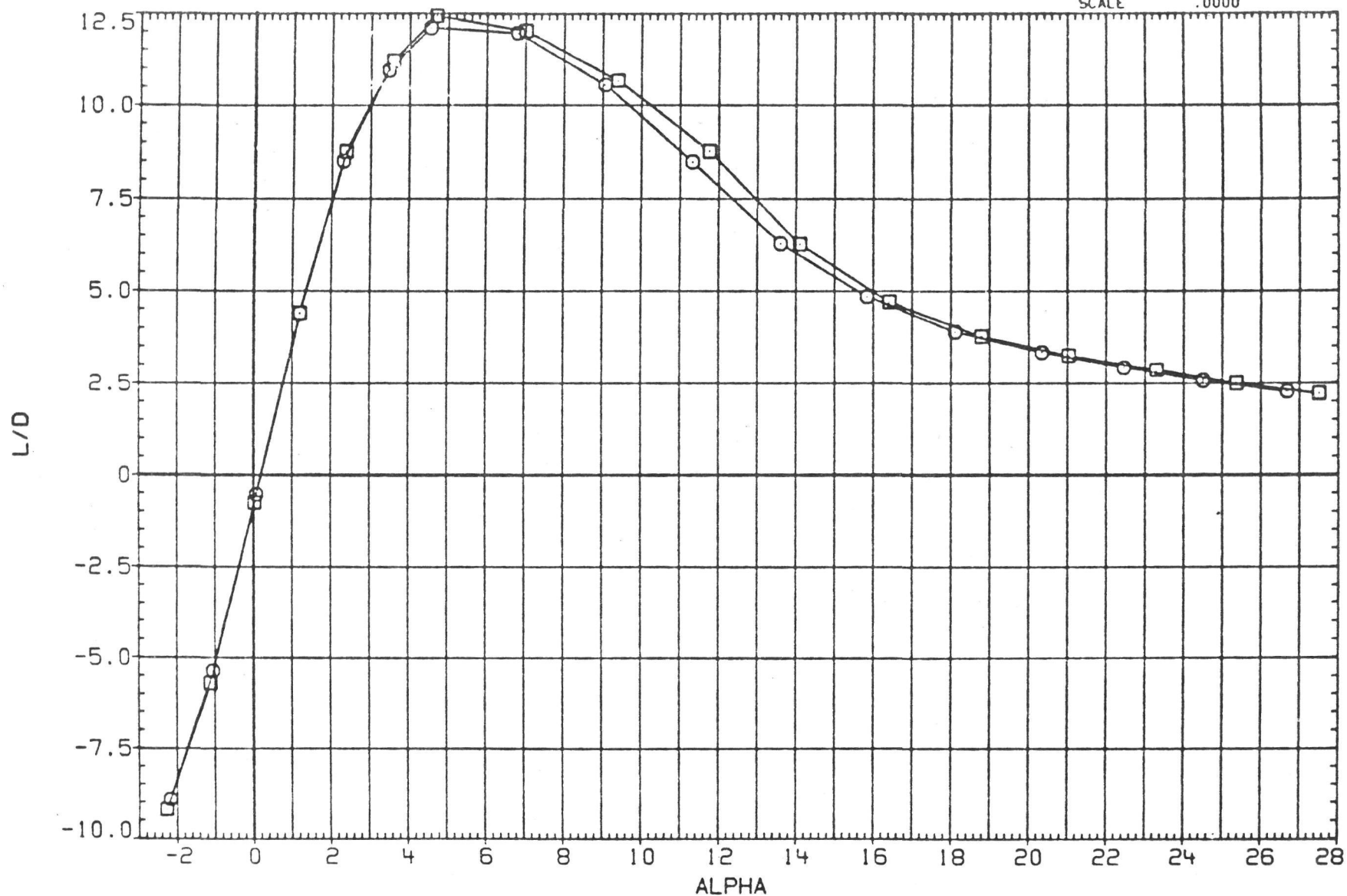


FIGURE 26. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 365

(JNC023) WING III 45-60-0008

AMES 12-086 (LA65)

SYMBOL

RN/M

PARAMETRIC VALUES

○
□

19.384
26.261

T/C
FILSWP
BETA
GRITNO

.080
60.000
.000
120.000

LESWP
TESWP
MACH

45.000
15.000
.300

REFERENCE INFORMATION

SREF	.0524	SQ. M.
LREF	.1926	METERS
BREF	.3331	METERS
XMRP	.1421	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

CL

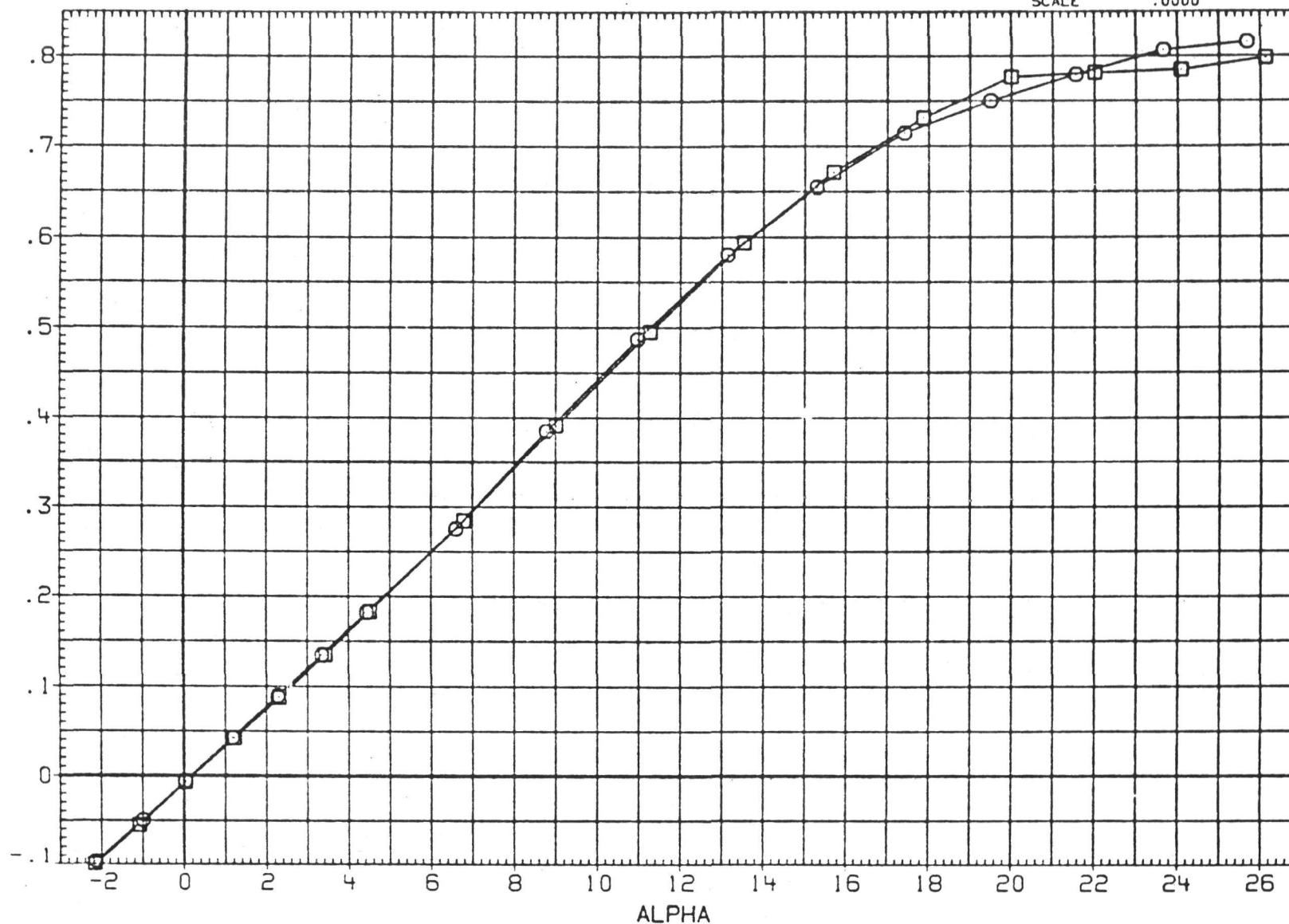


FIGURE 27. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 360

(JNC023) WING III 45-60-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 O 19.384 FILSWP .080 LESWP 45.000
 □ 26.261 BETA .000 TESWP 15.000
 GRITNO 120.000 MACH .300

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0524 SQ. M.
 LREF .1926 METERS
 BREF .3331 METERS
 XMRP .1421 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

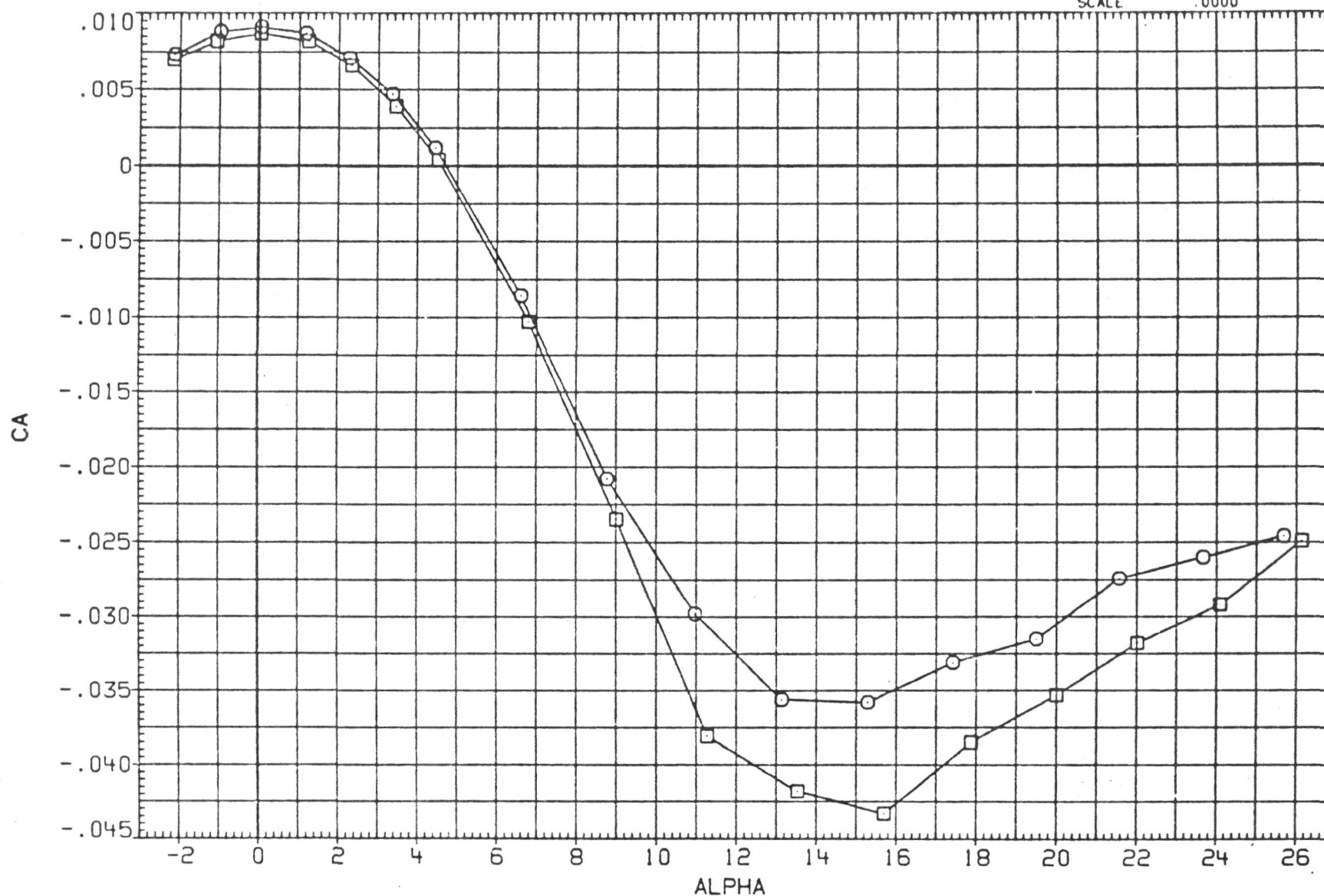


FIGURE 27. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 360

(JNC023) WING III 45-60-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	19.384	T/C	.080	LESWP	45.000
□	26.261	FILSWP	60.000	TESWP	15.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION		
SREF	.0524	SQ. M.
LREF	.1926	METERS
BREF	.3331	METERS
XMRP	.1421	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

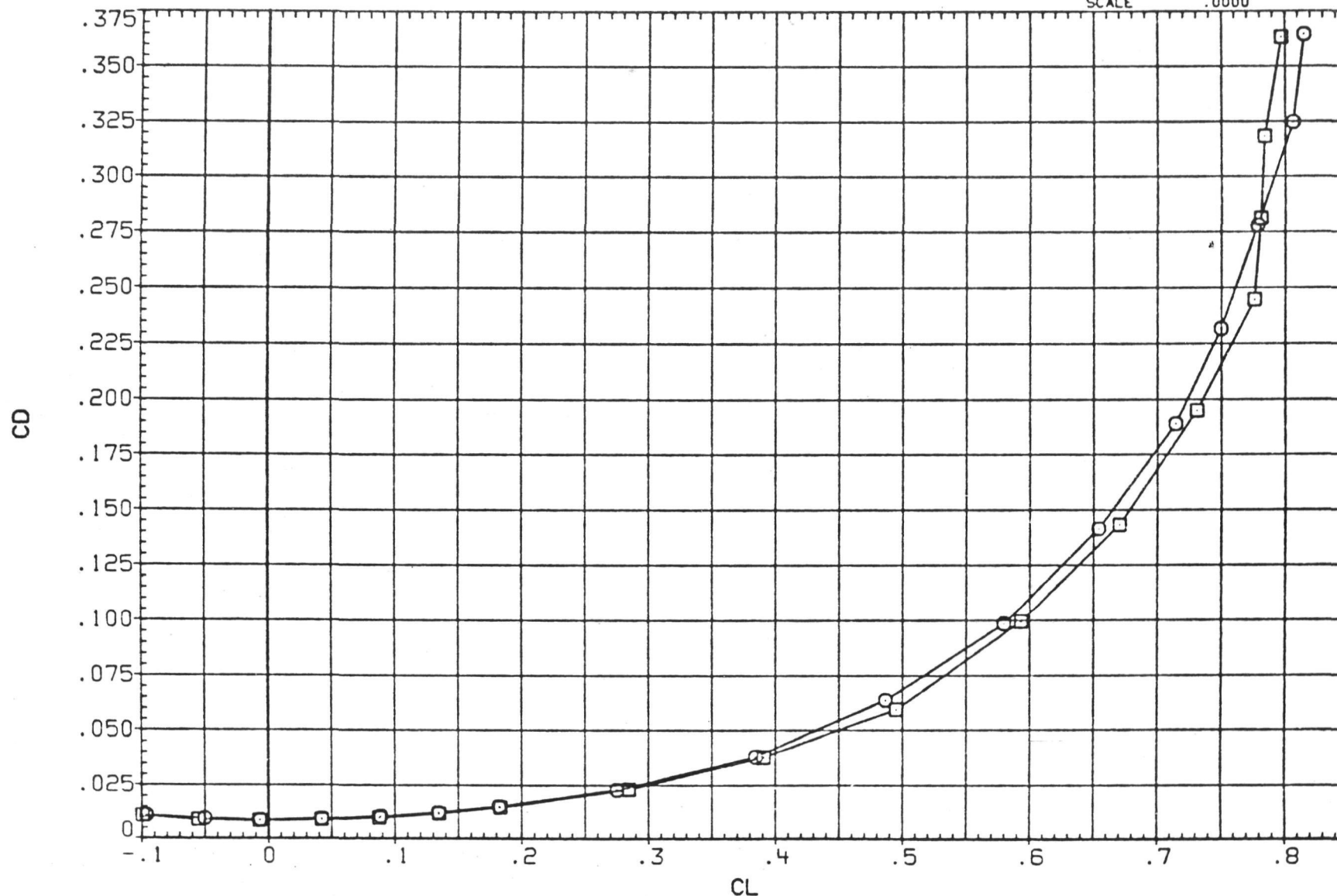


FIGURE 27. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 360

SYMBOL	RN/M	PARAMETRIC VALUES			
○	19.384	T/C	.080	LESWP	45.000
□	26.261	FILSWP	60.000	TESWP	15.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

SREF	.0524	SQ. M.
LREF	.1926	METERS
BREF	.3331	METERS
XMRP	.1421	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

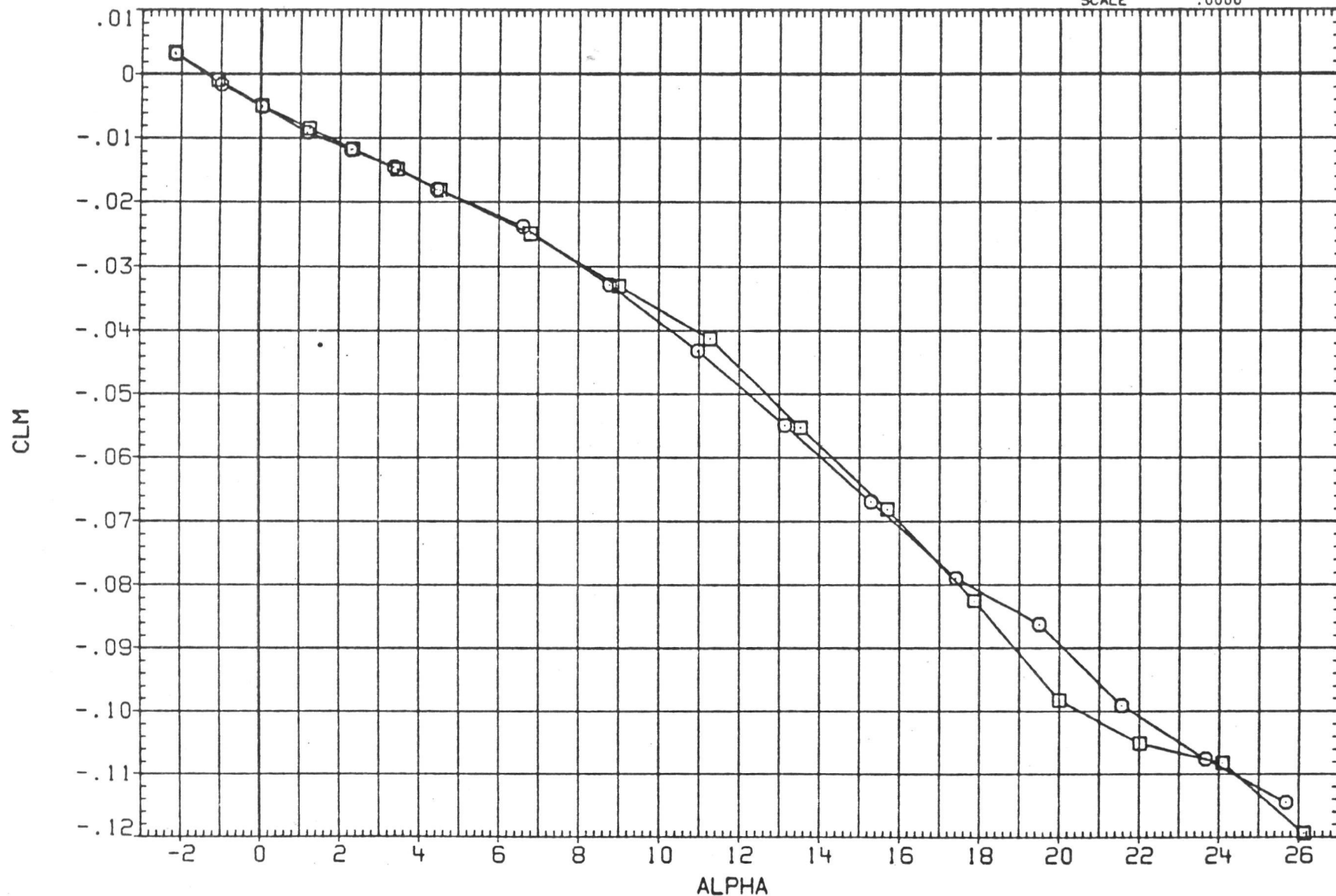


FIGURE 27. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 360

(JNC023) WING III 45-60-0008

AMES 12-086 (LA65)

SYMBOL RN/M PARAMETRIC VALUES

○	19.384	T/C	.080	LESWP	45.000
□	26.261	FILSWP	60.000	TESWP	15.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0524	SO. M.
LREF	.1926	METERS
BREF	.3331	METERS
XMRP	.1421	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

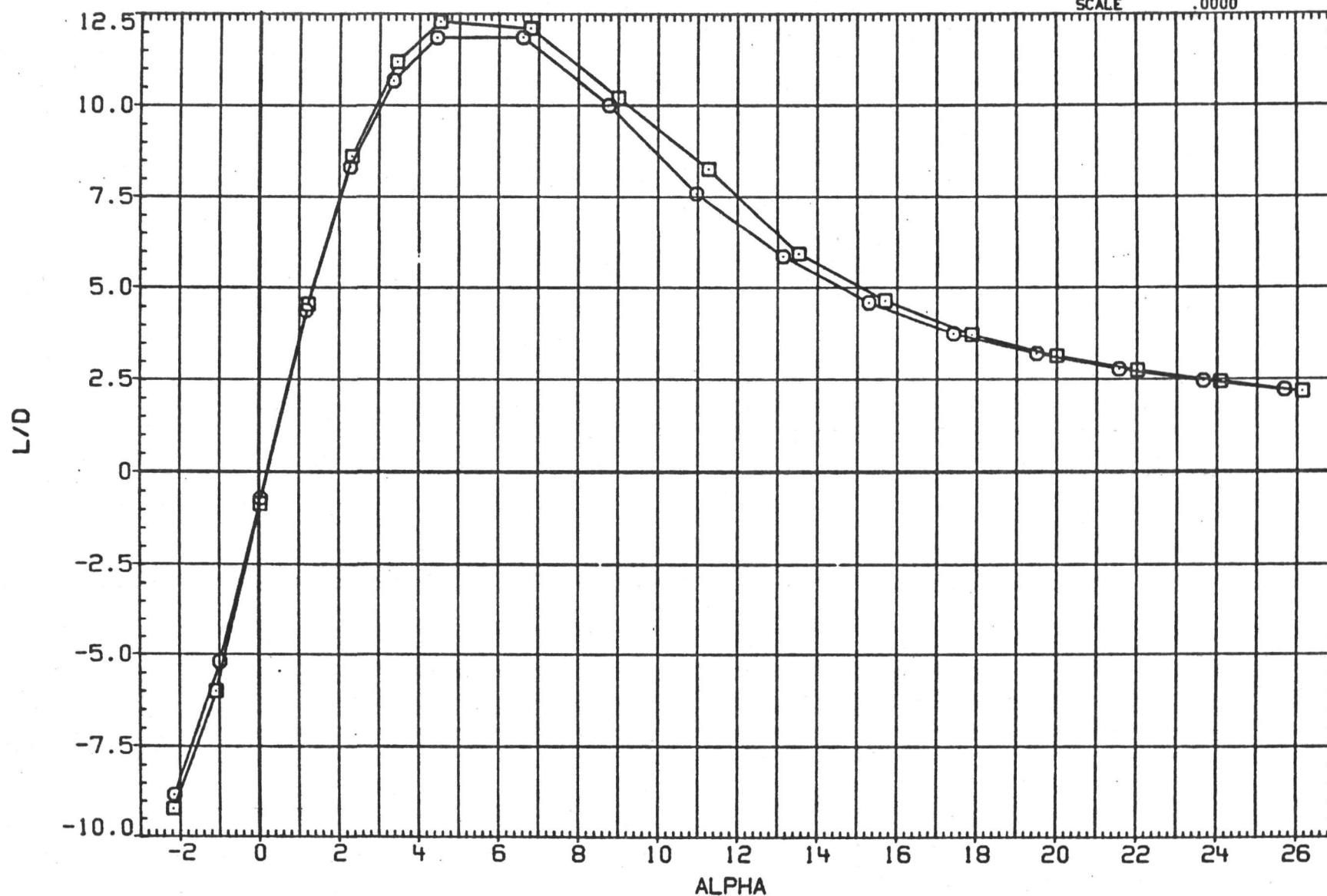


FIGURE 27. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 360

(JNC024) WING III 45-55-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 O 19.515 FILSWP .080 LESWP 45.000
 □ 26.271 TESWP 55.000 MACH .300
 BETA .000
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0510 SQ. M.
 LREF .1839 METERS
 BREF .3331 METERS
 XMRP .1275 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

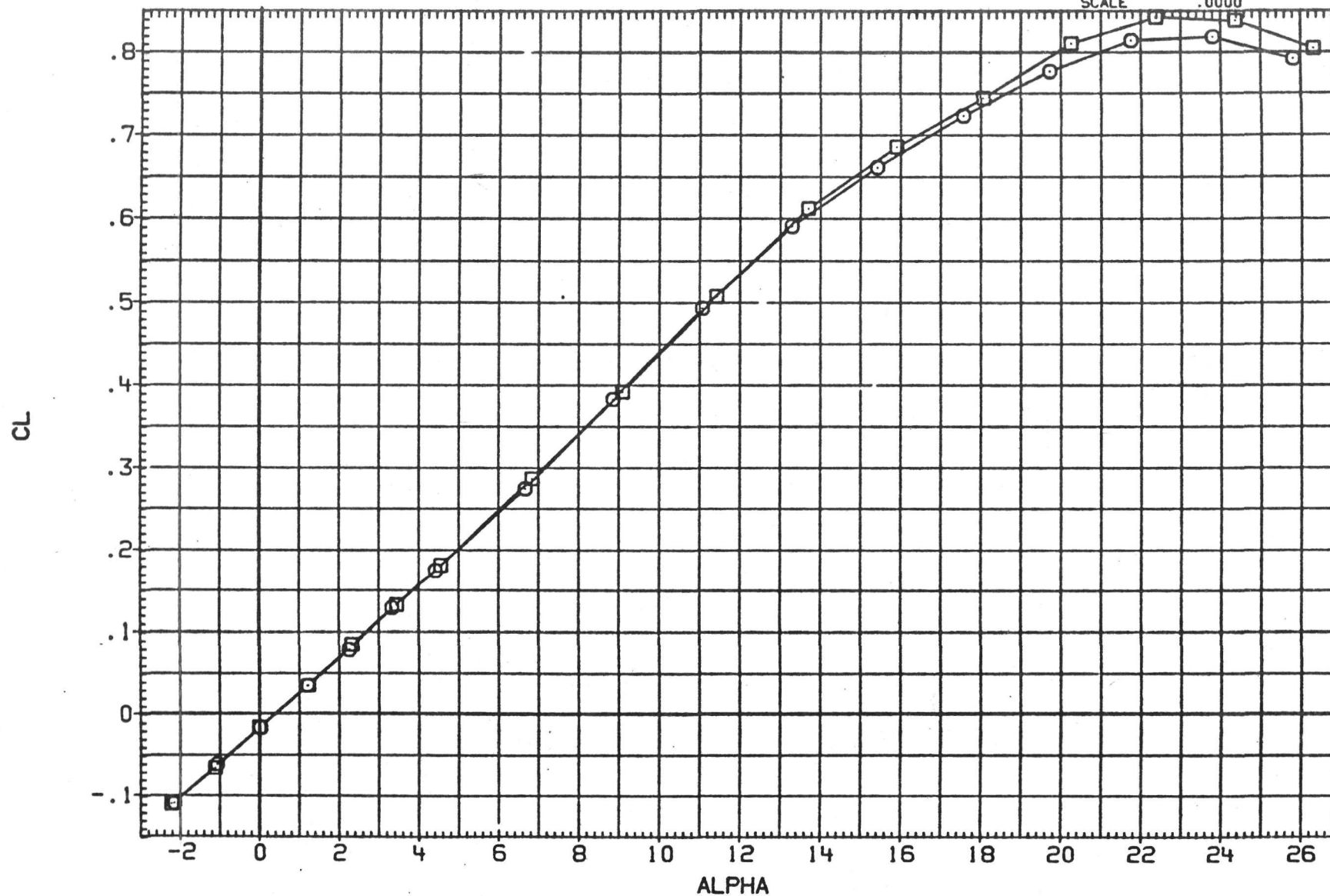


FIGURE 28. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 355

(JNC024) WING III 45-55-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	19.515	T/C	.080	LESWP	45.000
□	26.271	FILSWP	55.000	TESWP	15.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION		
SREF	.0510	SO. M.
LREF	.1839	METERS
BREF	.3331	METERS
XMRP	.1275	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

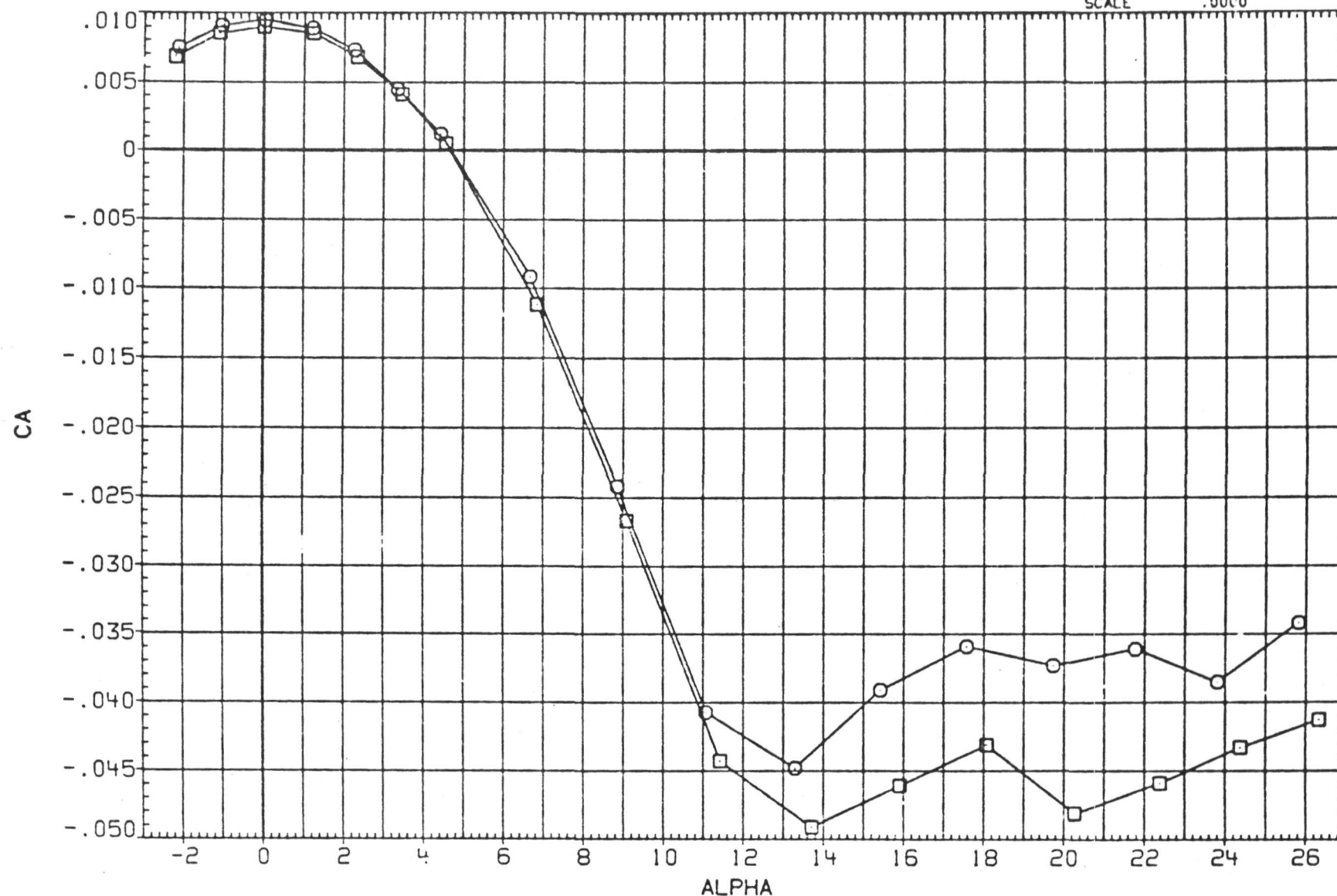


FIGURE 28. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 355

(JNC024) WING III 45-55-0008
 SYMBOL RN/M T/C LESHP 45.000
 19.515
 26.271 FILSWP 55.000 TESHP 15.000
 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0510 SQ. M.
 LREF .1839 METERS
 BREF .3331 METERS
 XMRP .1275 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

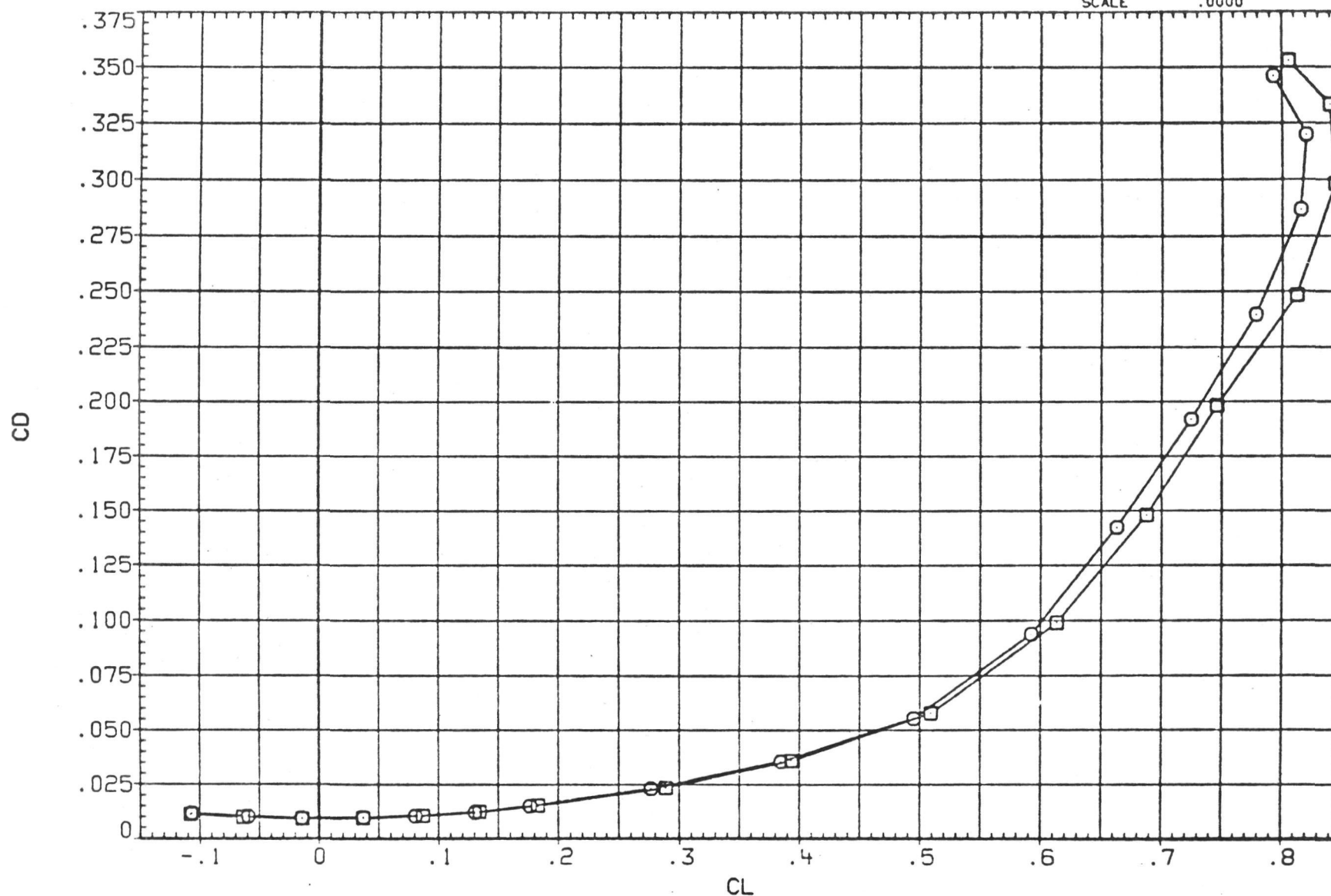


FIGURE 28. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 355

(JNC024) WING III 45-55-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES
○	19.515	T/C .080 LESHP 45.000
□	26.271	FILSWP 55.000 TESHP 15.000
		BETA .000 MACH .300
		GRITNO 120.000

REFERENCE INFORMATION		
SREF	.0510	SO. M.
LREF	.1839	METERS
BREF	.3331	METERS
XMRP	.1275	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	



FIGURE 28. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 355

(JNC024) WING III 45-55-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 19.515 LESWP 45.000
 □ 26.271 FILSWP 55.000
 BETA .000
 GRITNO 120.000 MACH .300

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0510 SQ. M.
 LREF .1839 METERS
 BREF .3331 METERS
 XMRP .1275 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

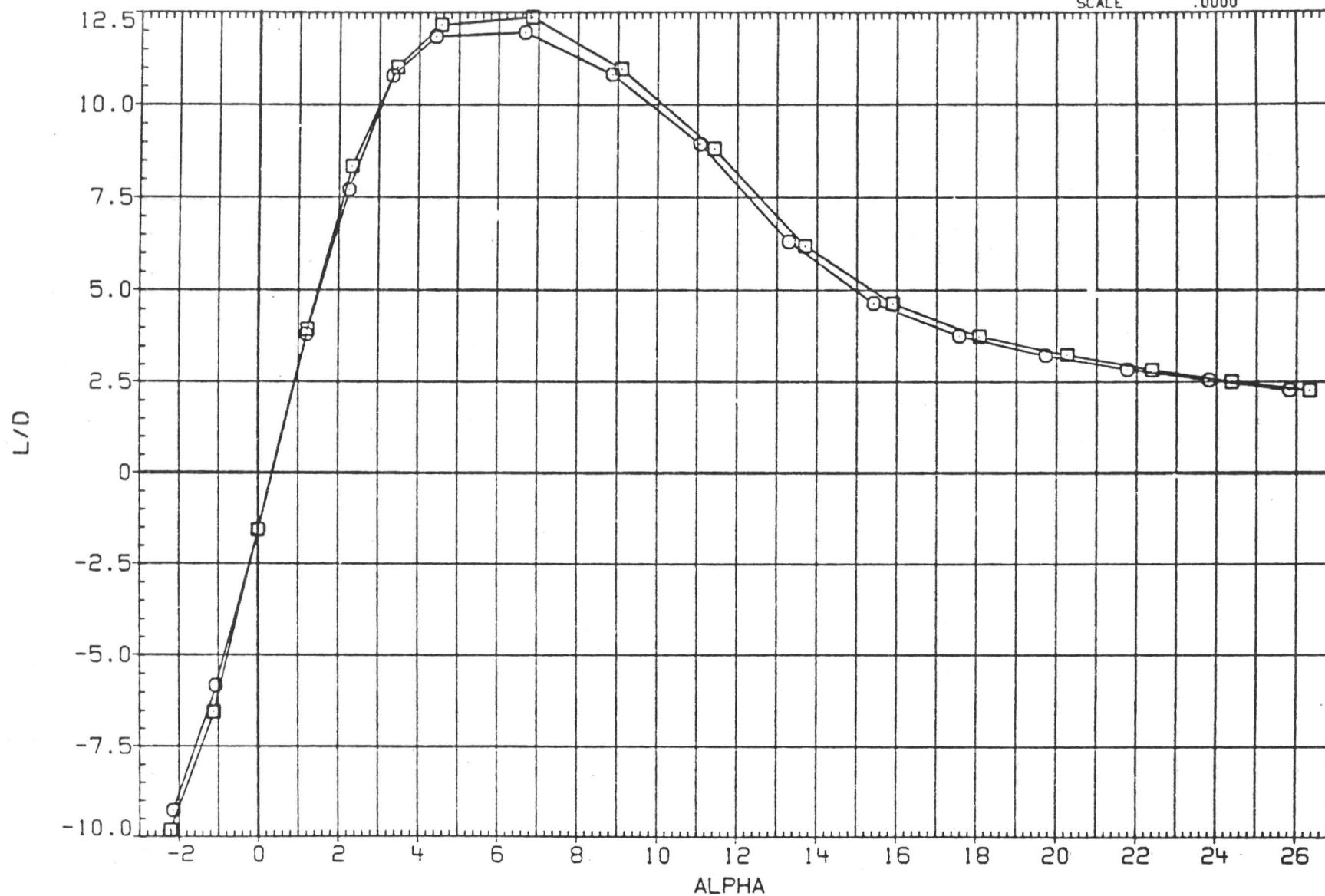


FIGURE 28. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 355

(JNC025) WING IV 53-53-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES		
○	6.319	FILSWP	.080	LESWP	53.000
□	12.773	BETA	53.000	TESWP	7.000
◇	19.227	GRITNO	.000	MACH	.300
△	26.015				

REFERENCE INFORMATION		
SREF	.0490	SQ. M.
LREF	.1801	METERS
BREF	.3331	METERS
XMRP	.1253	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

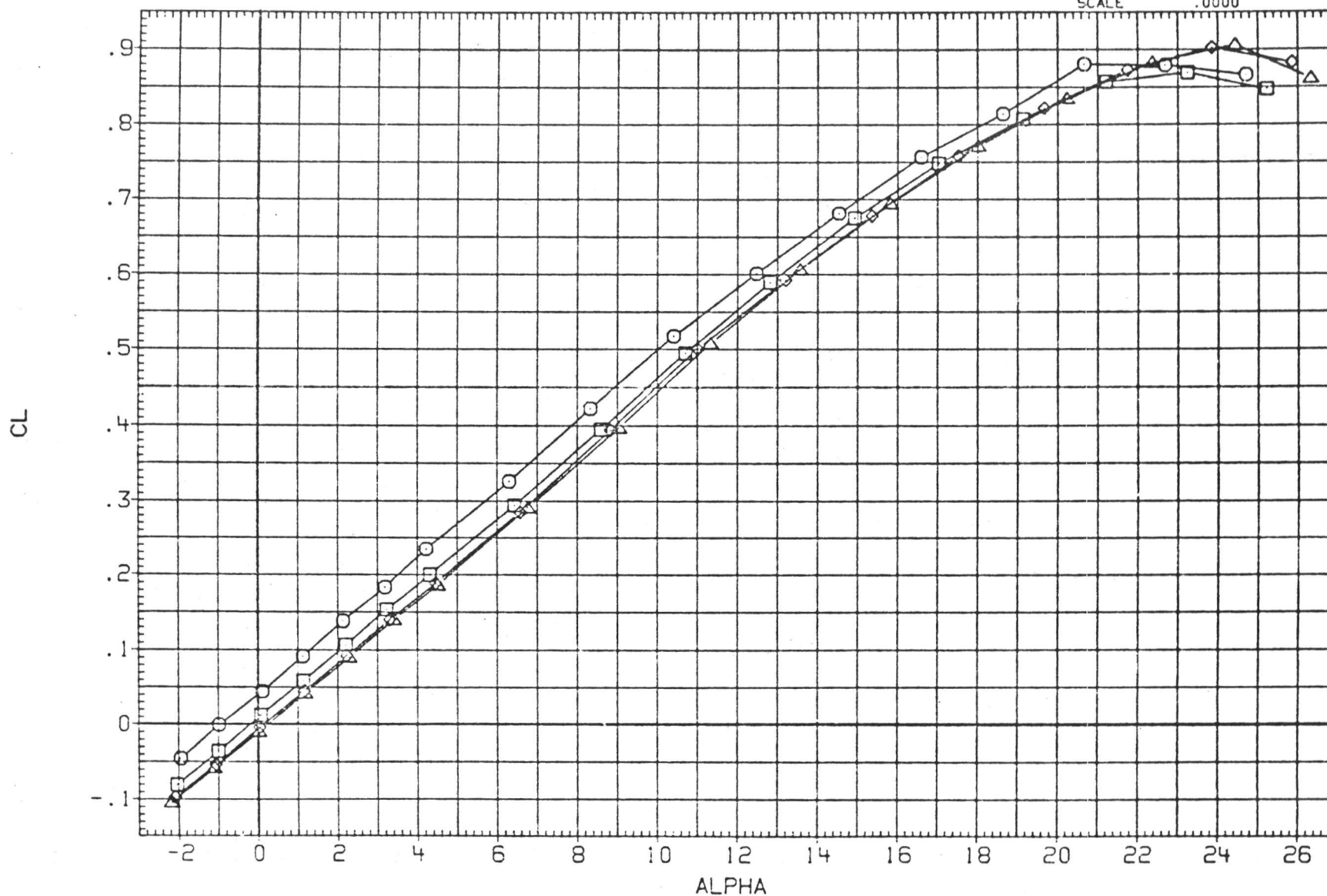


FIGURE 29. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 453
(LEADING EDGE EXTENSION OFF)

(JNC025) WING IV 53-53-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 6.319 LESWP 53.000
 □ 12.773 FILSWP 53.000
 ◇ 19.227 BETA .000
 △ 26.015 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0490 SQ. M.
 LREF .1801 METERS
 BREF .3331 METERS
 XMRP .1253 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

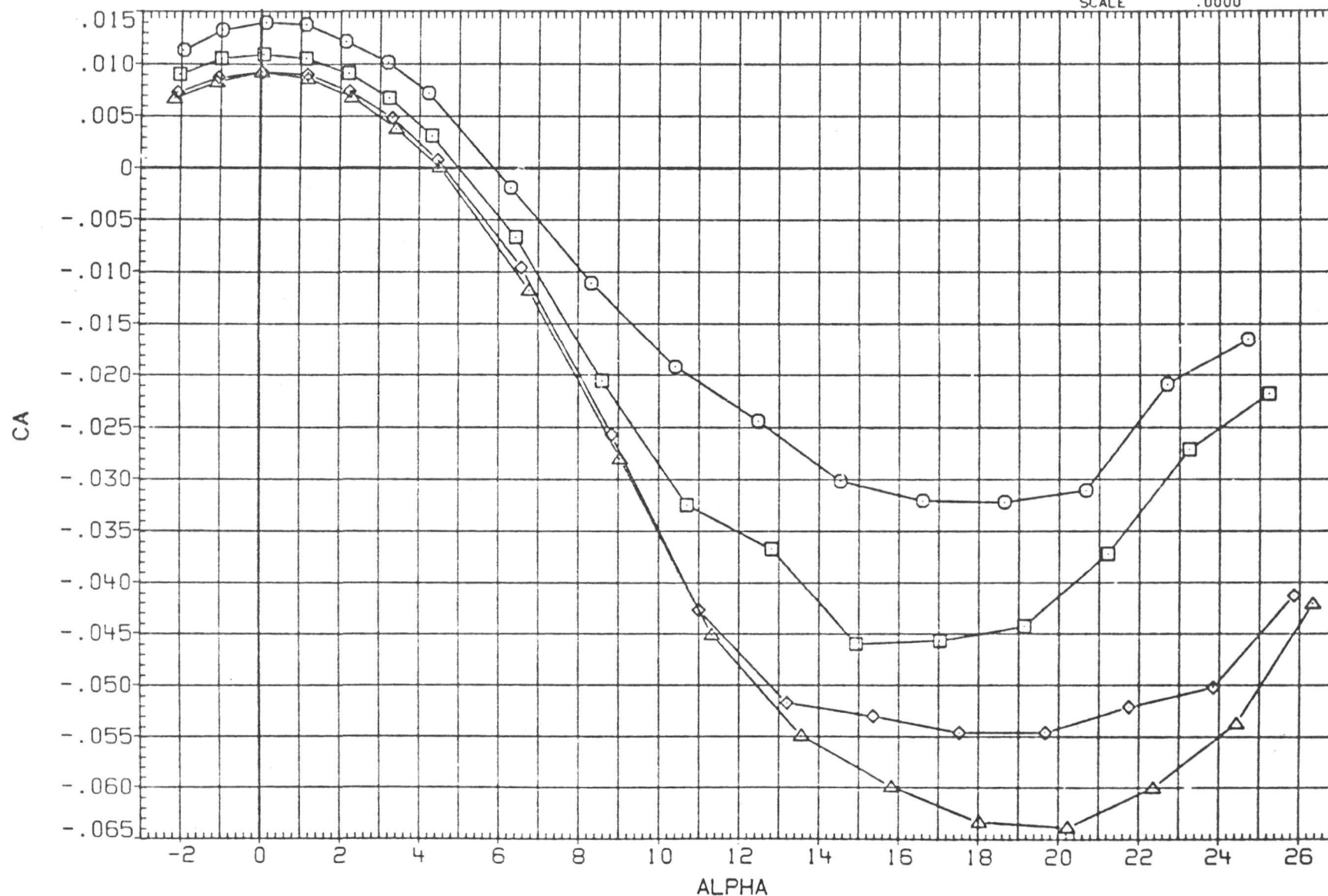


FIGURE 29. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 453
 (LEADING EDGE EXTENSION OFF)

(JNC025) WING IV 53-53-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES		
○	6.319	FILSWP	.080	LESWP	53.000
□	12.773	BETA	53.000	TESWP	7.000
◇	19.227	GRITNO	.000	MACH	.300
△	26.015		120.000		

REFERENCE INFORMATION

SREF	.0490	SQ. M.
LREF	.1801	METERS
BREF	.3331	M. XB
YMRP	.1253	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

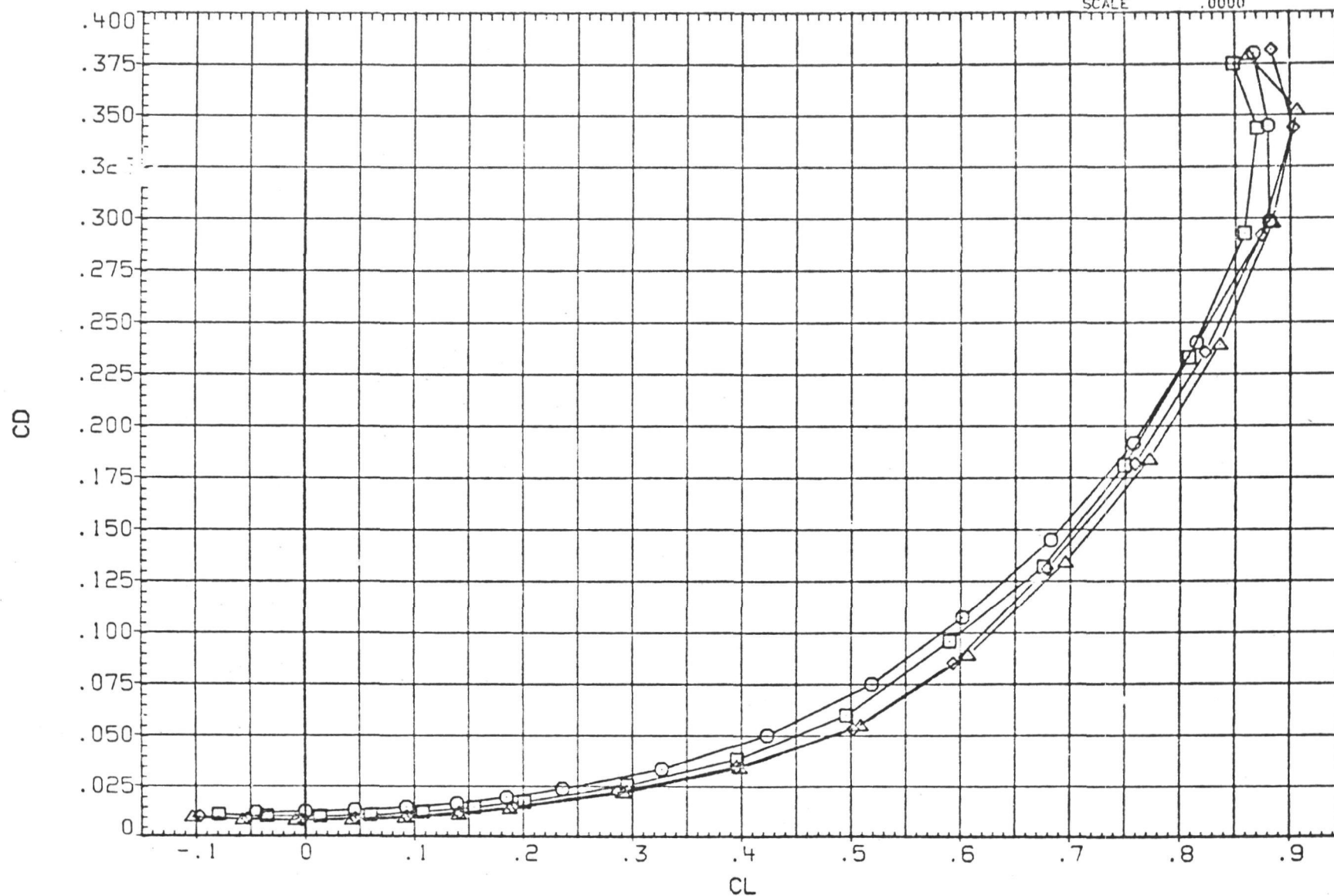


FIGURE 29. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 453
(LEADING EDGE EXTENSION OFF)

SYMBOL	RN/M	PARAMETRIC VALUES
○	6.319	T/C .080 LESWP 53.000
□	12.773	FILSWP 53.000 TESWP 7.000
◇	19.227	BETA .000 MACH .300
△	26.015	GRITNO 120.000

REFERENCE INFORMATION		
SREF	.0490	SO. M.
LREF	.1801	METERS
BREF	.3331	METERS
XMRP	.1253	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

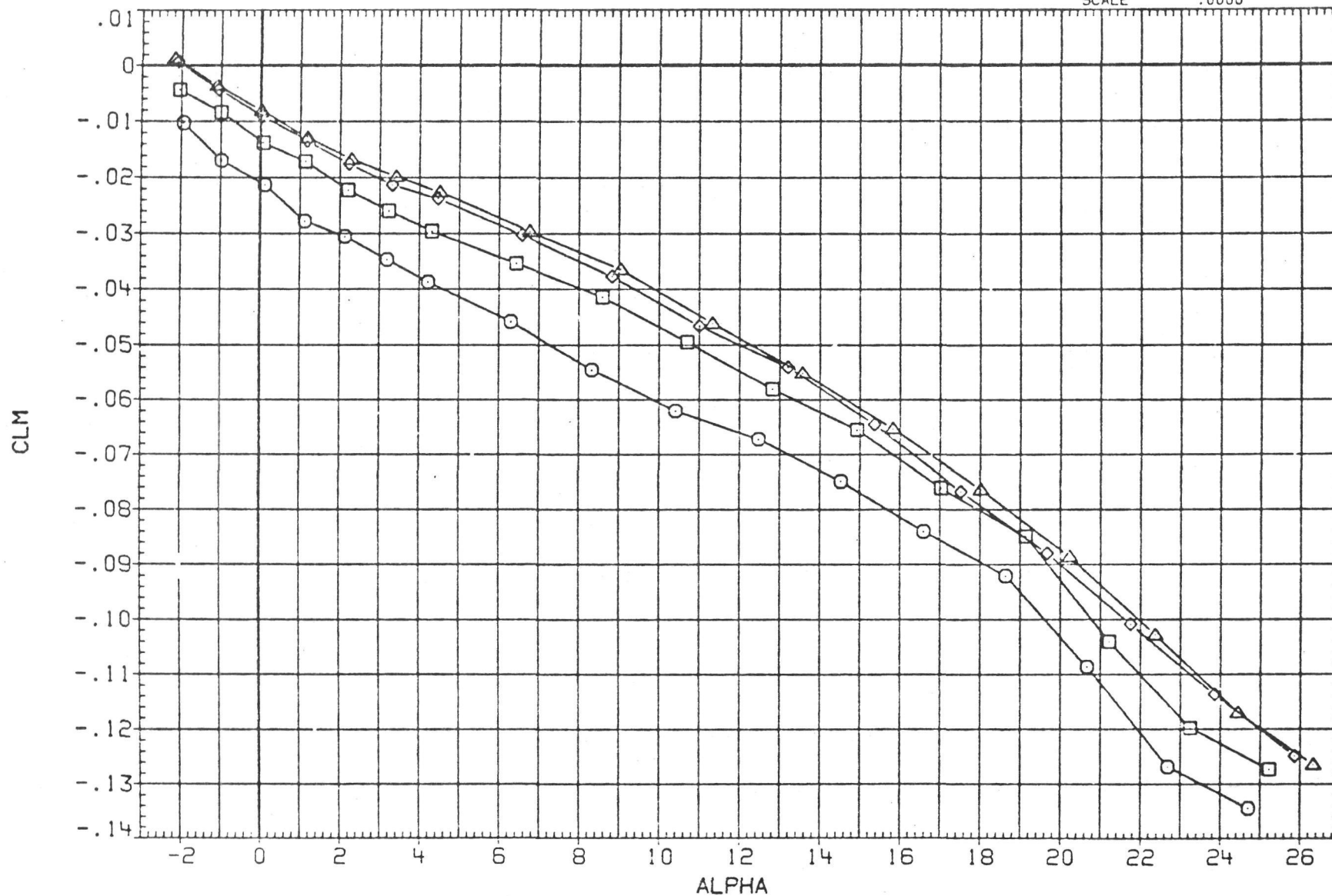


FIGURE 29. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 453
(LEADING EDGE EXTENSION OFF)

(JNC025) WING IV 53-53-0008

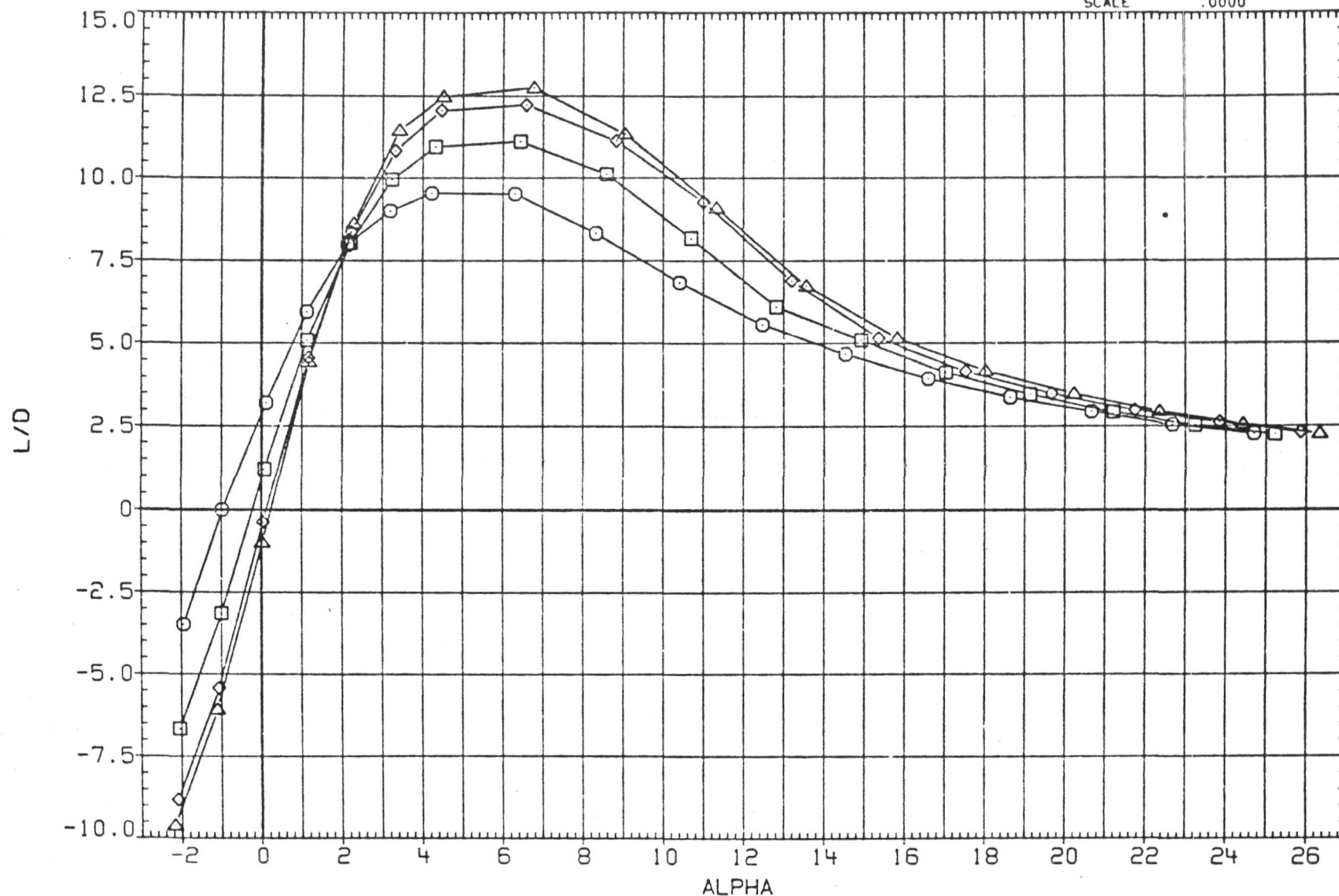
AMES 12-086 (LA65)

SYMBOL RN/M PARAMETRIC VALUES

○	6.319	T/C	.080	LESWP	53.000
□	12.773	FILSWP	53.000	TESWP	7.000
◇	19.227	BETA	.000	MACH	.300
△	26.015	GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0490	SQ. M.
LREF	.1801	METERS
BREF	.3331	METERS
XMRP	.1253	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

FIGURE 29. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 453
(LEADING EDGE EXTENSION OFF)

(JNC026) WING IV 53-80-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 12.934 .080 LESWP 53.000
 □ 19.509 FILSWP 80.000 TESWP 7.000
 ◇ 26.300 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0694 SQ. M.
 LREF .3236 METERS
 BREF .3331 METERS
 XMRP .3168 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

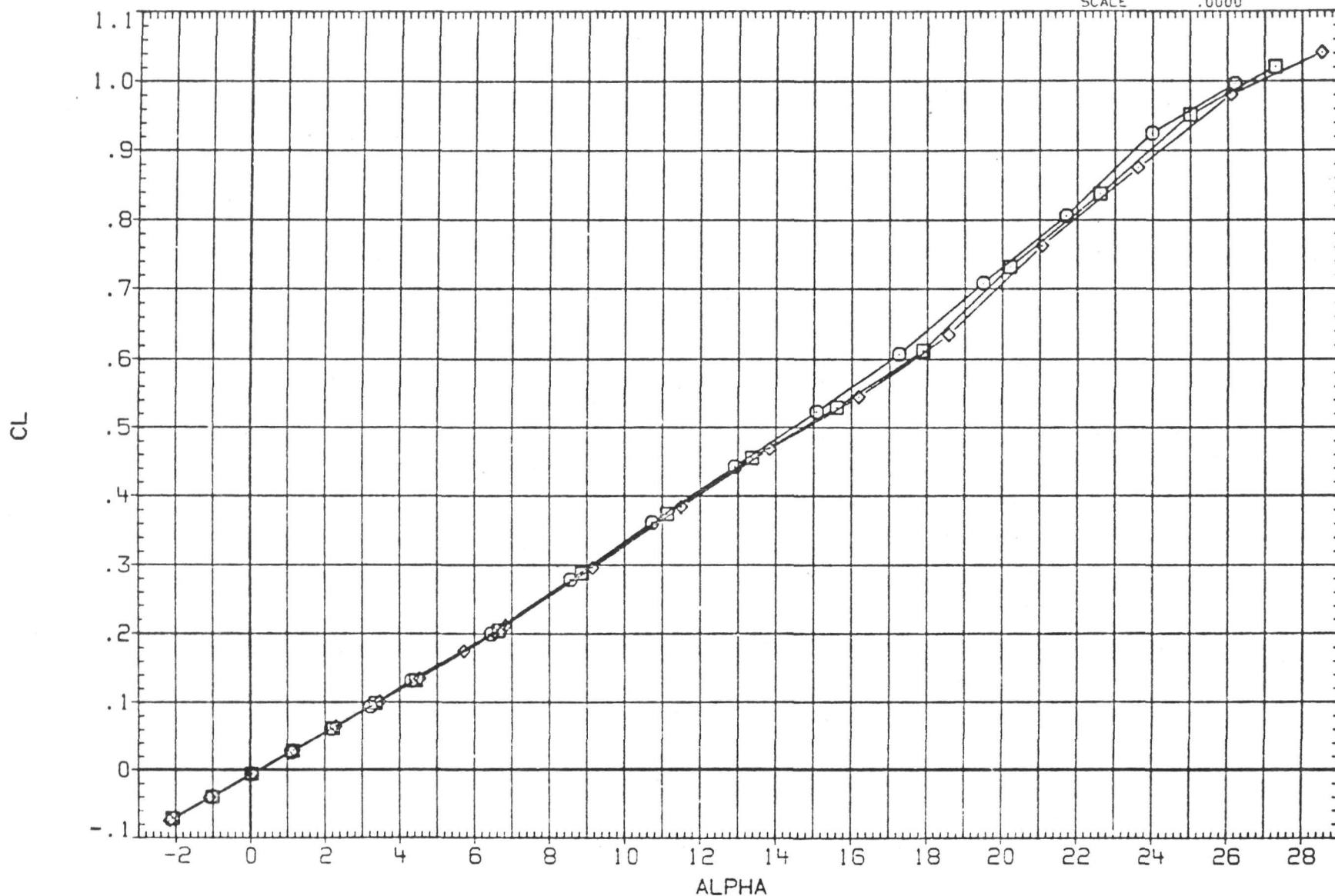


FIGURE 30. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 480

(JNC026) WING IV 53-80-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES
○	12.934	T/C .080 LESWP 53.000
□	19.509	FILSWP 80.000 TESWP 7.000
◇	26.300	BETA .000 MACH .300
		GRITNO 120.000

REFERENCE INFORMATION		
SREF	.0694	SQ. M.
LREF	.3236	METERS
BREF	.3331	METERS
XMRP	.3168	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

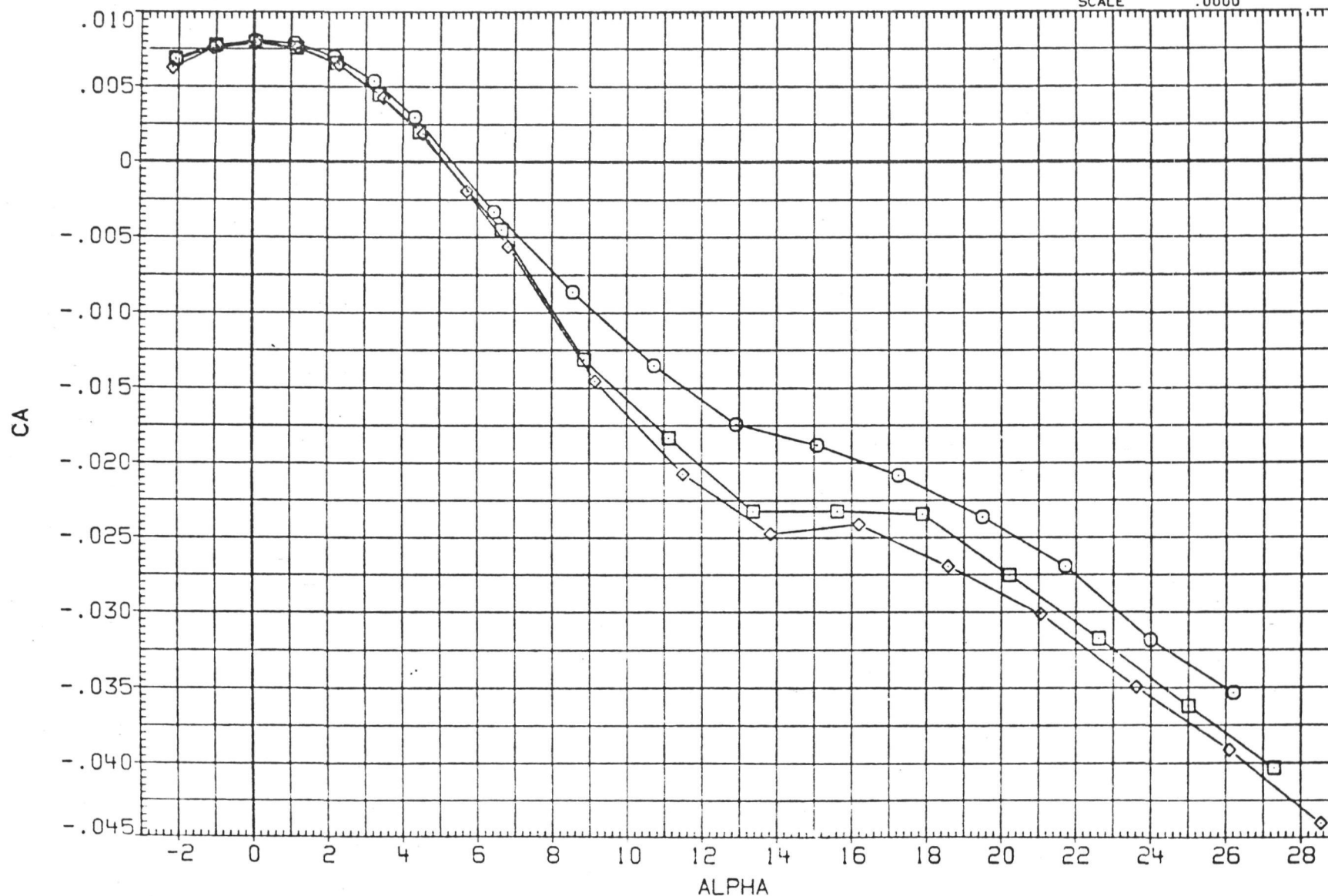


FIGURE 30. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 480

(JNC026) WING IV 53-80-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 12.934 LESWP 53.000
 □ 19.509 FILSWP 80.000
 ◇ 26.300 BETA .000
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0694 SQ. M.
 LREF .3236 METERS
 BREF .3331 METERS
 XMRP .3168 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

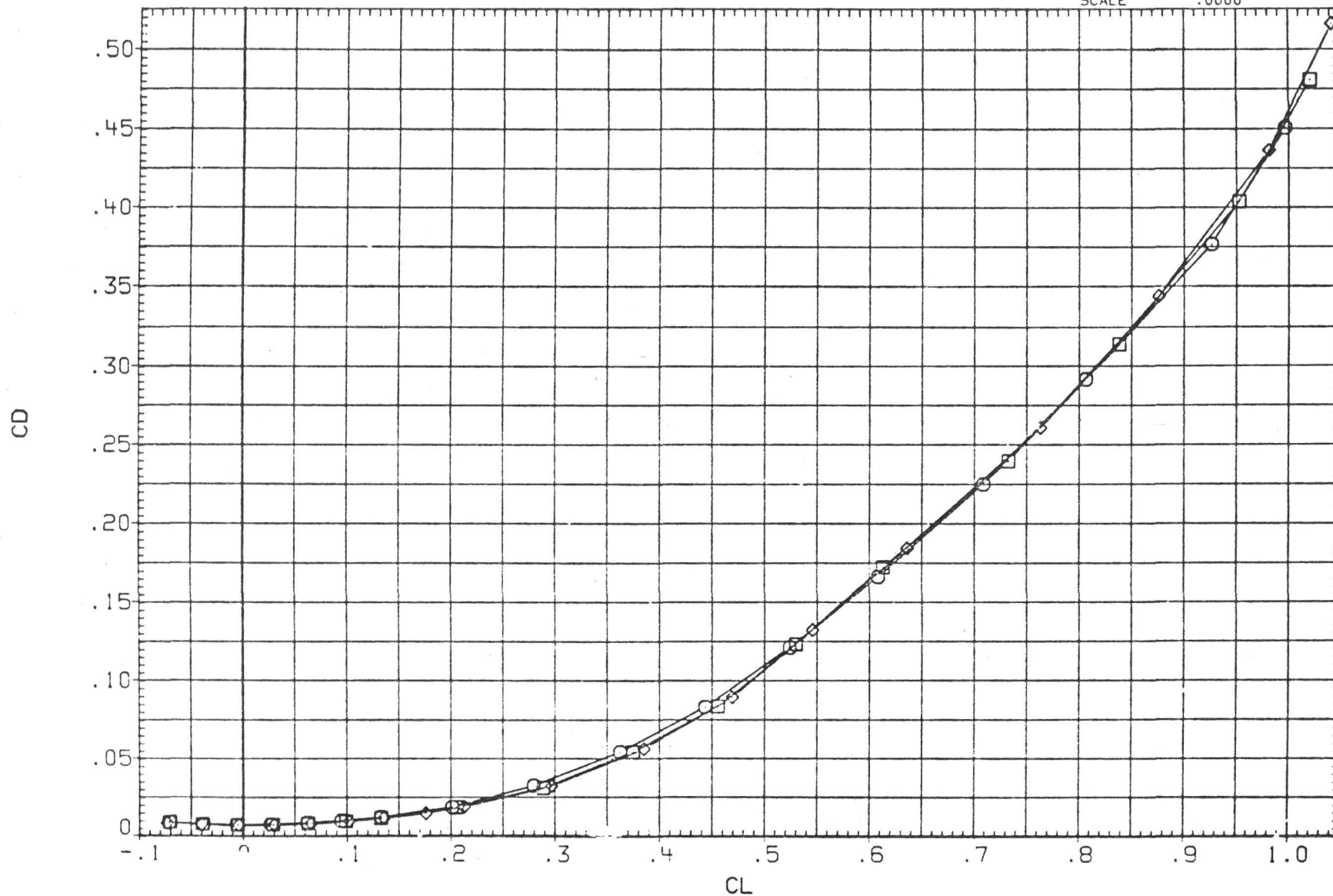


FIGURE 30. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 480

(JNC026) WING IV 53-80-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	12.934	T/C	.080	LESWP	53.000
□	19.509	FILSWP	80.000	TESWP	7.000
◇	26.300	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0694	SQ. M.
LREF	.3236	METERS
BREF	.3331	METERS
XMRP	.3168	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

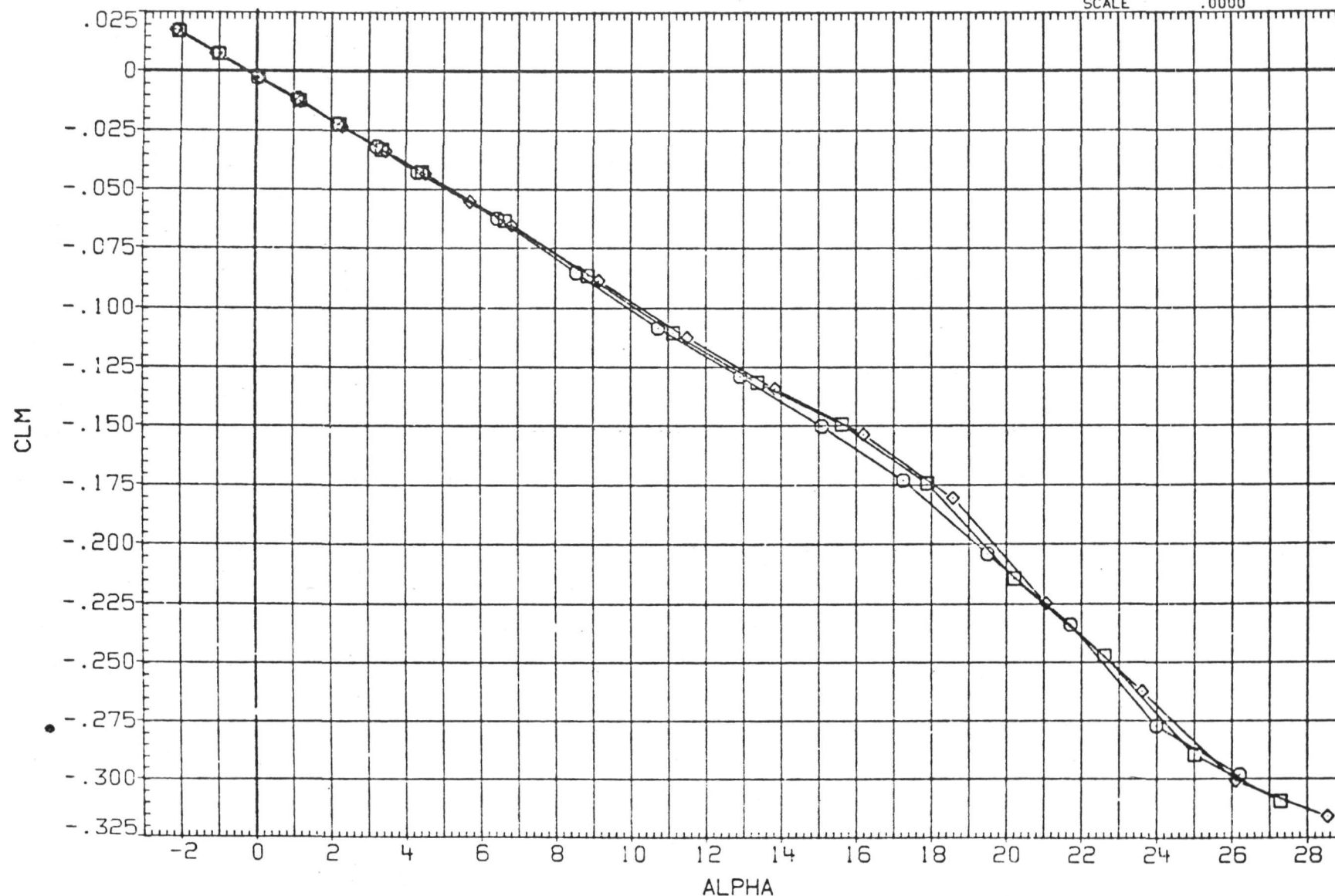


FIGURE 30. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 480

SYMBOL	RN/M	PARAMETRIC VALUES
○	12.934	T/C .060 LESWP 53.000
□	19.509	FILSWP 80.000 TESWP 7.000
◇	26.300	BETA .000 MACH .300
		GRITNO 120.000

REFERENCE INFORMATION		
SRFF	.0074	SO. M.
LREF	.3236	METERS
BREF	.3331	METERS
XMRP	.3168	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

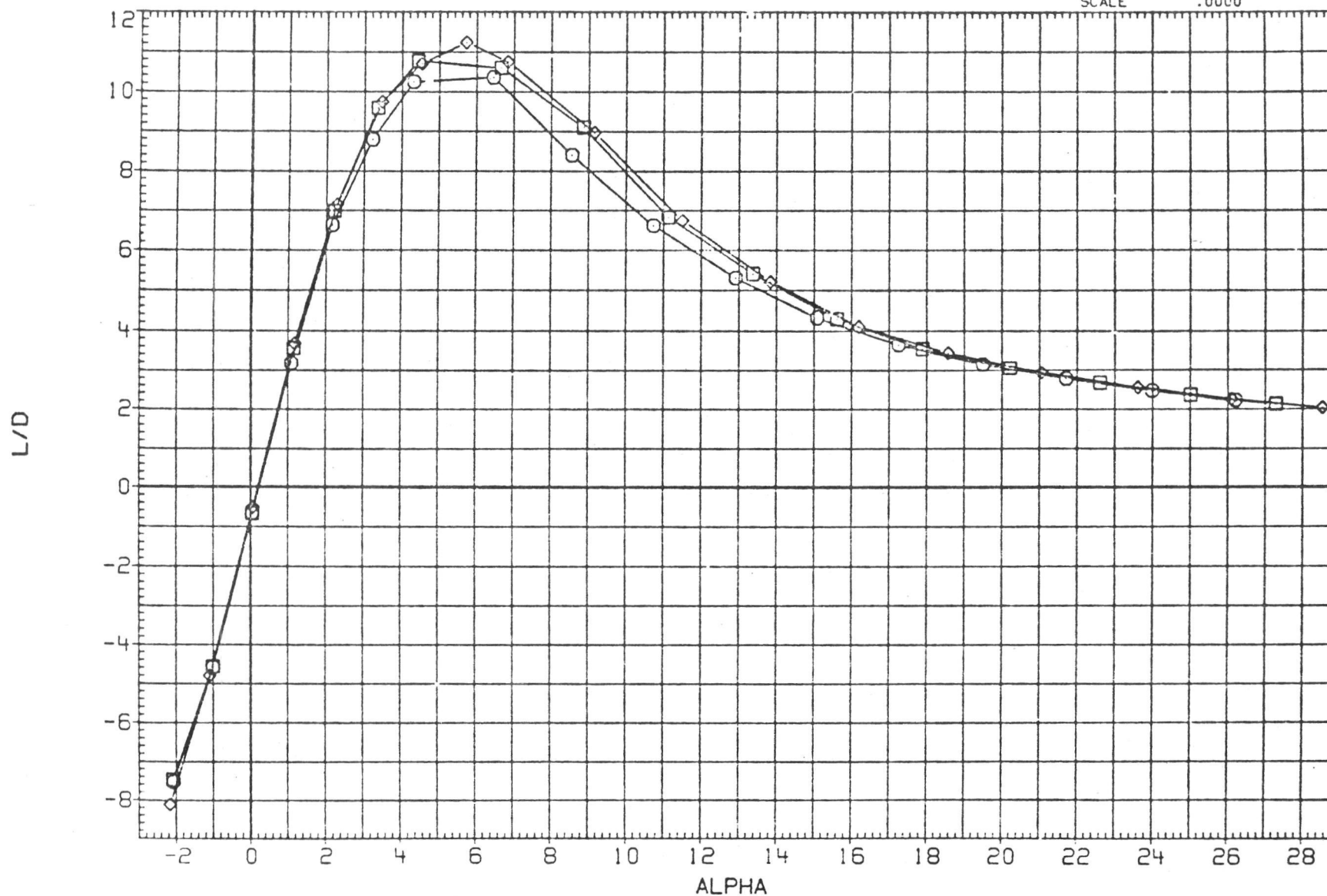


FIGURE 30. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 480

(JNC027) WING IV 53-75-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 12.970 LESWP 53.000
 □ 19.420 FILSWP 75.000 TESWP 7.000
 ◇ 26.064 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0603 SQ. M.
 LREF .2549 METERS
 BREF .3331 METERS
 XMRP .2349 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

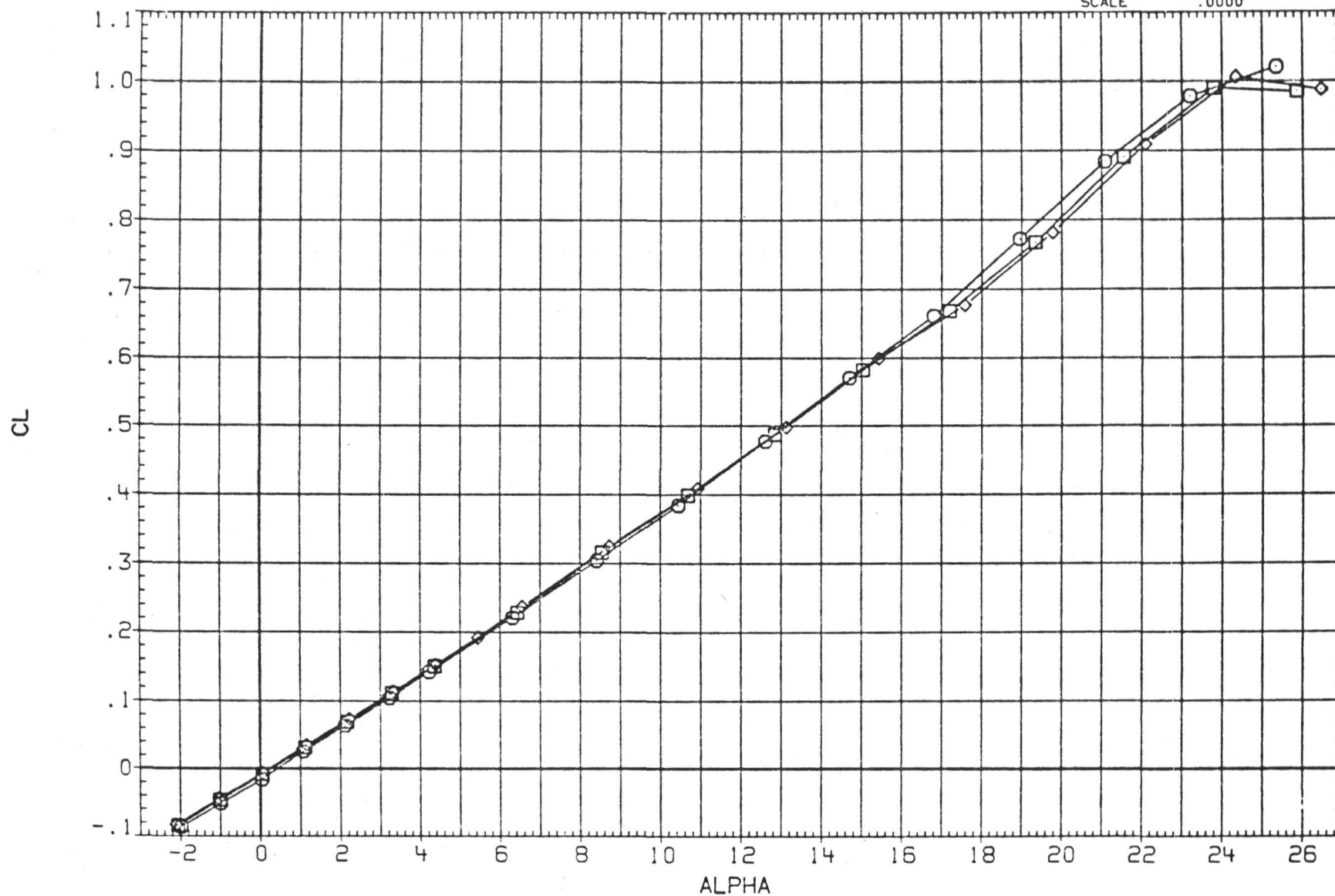


FIGURE 31. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 475

(JNC027) WING IV 53-75-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 12.970 FILSWP .080 LESWP 53.000
 □ 19.420 BETA .000 TESWP 7.000
 ◇ 26.064 GRITNO 120.000 MACH .300

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0603 SQ. M.
 LREF .2549 METERS
 BREF .3331 METERS
 XMRP .2349 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

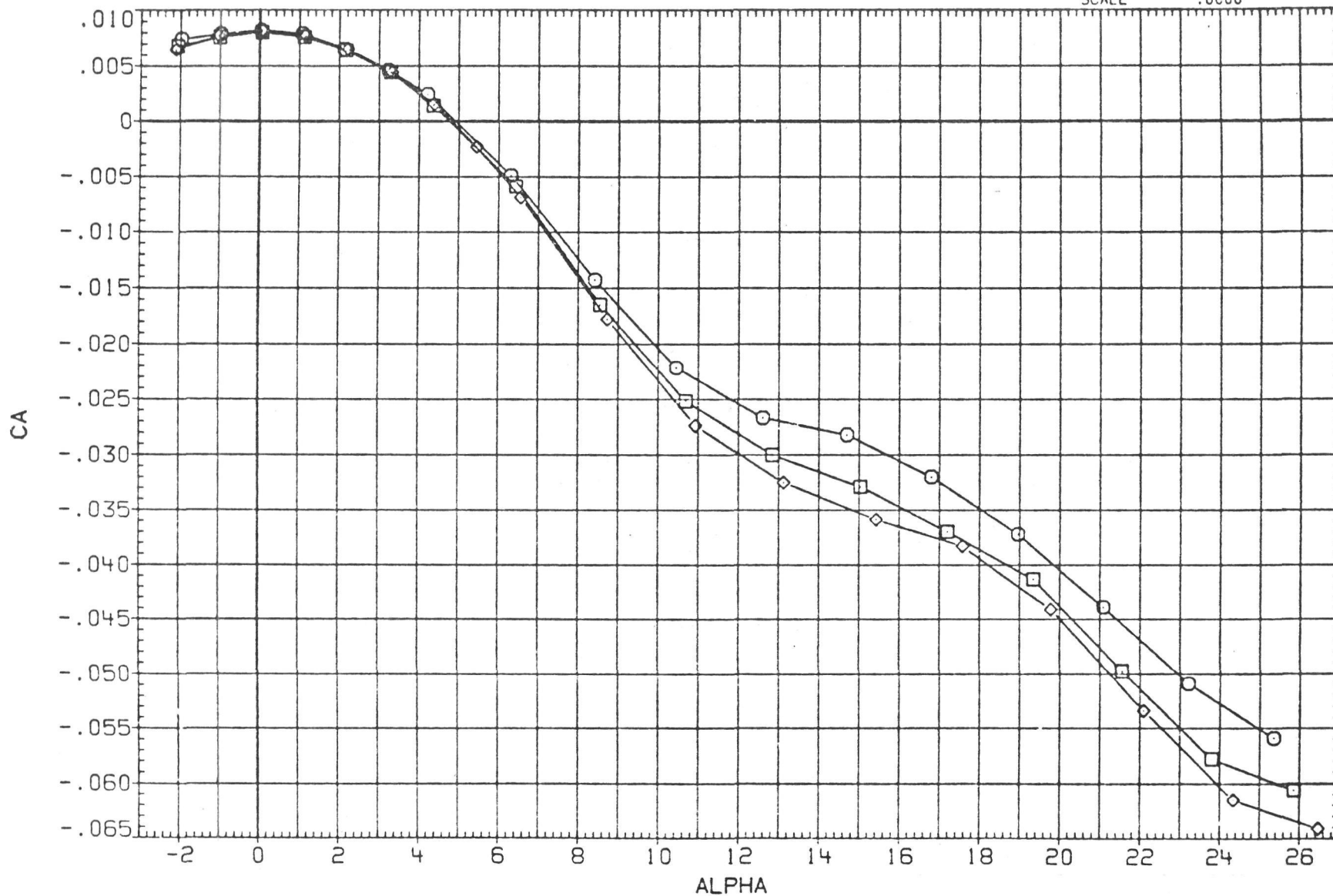


FIGURE 31. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 475

(JNC027) WING IV 53-75-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	12.970	T/C	.080	LESWP	53.000
□	19.420	FILSWP	75.000	TESWP	7.000
◇	26.064	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0603	SQ. M.
LREF	.2549	METERS
BREF	.3331	METERS
XMRP	.2349	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

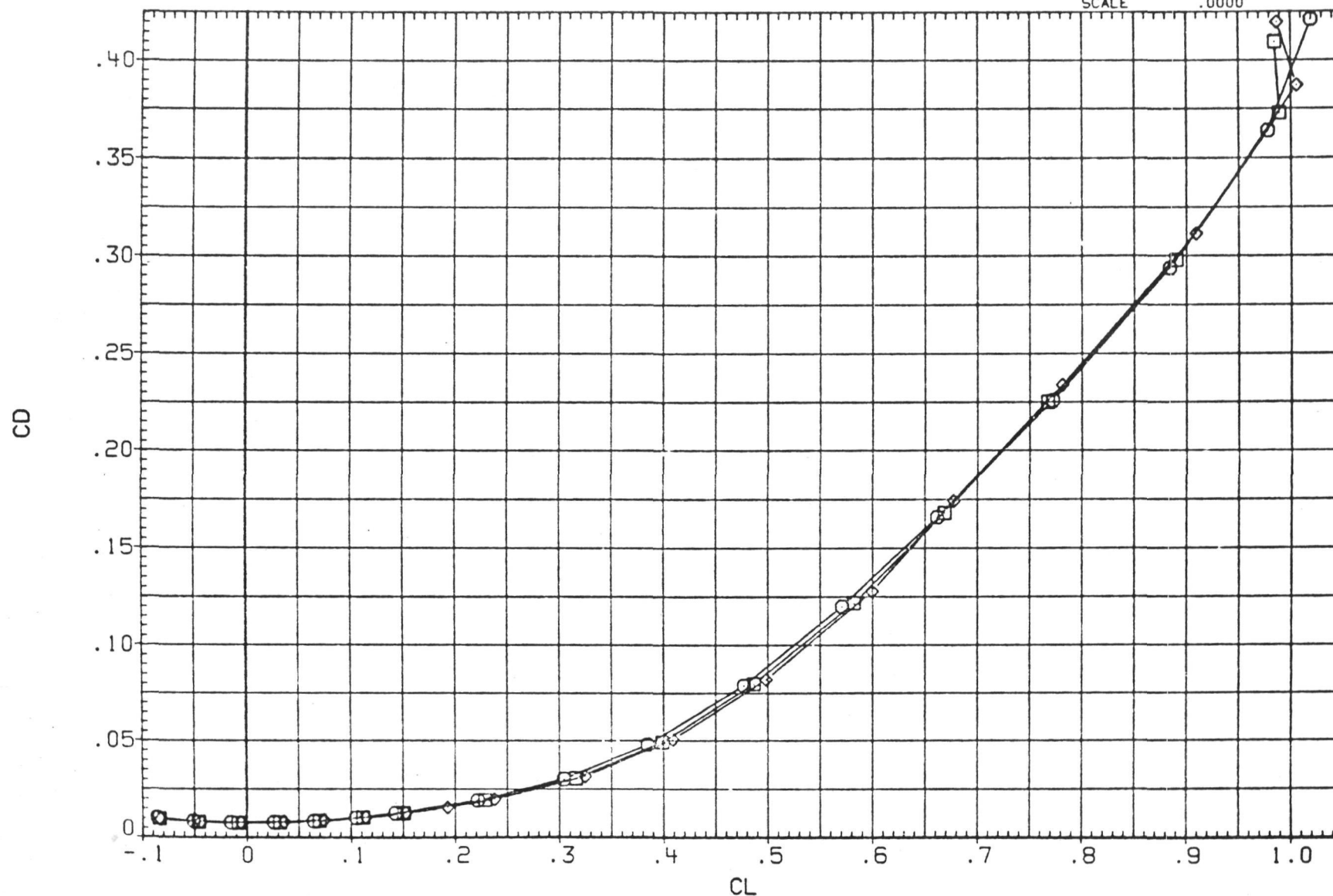


FIGURE 31. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 475

(JNC027) WING IV 53-75-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 12.970 .080 LESWP 53.000
 □ 19.420 FILSWP 75.000 TESWP 7.000
 ◇ 26.064 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0603 SQ. M.
 LREF .2549 METERS
 BREF .3331 METERS
 XMRP .2349 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

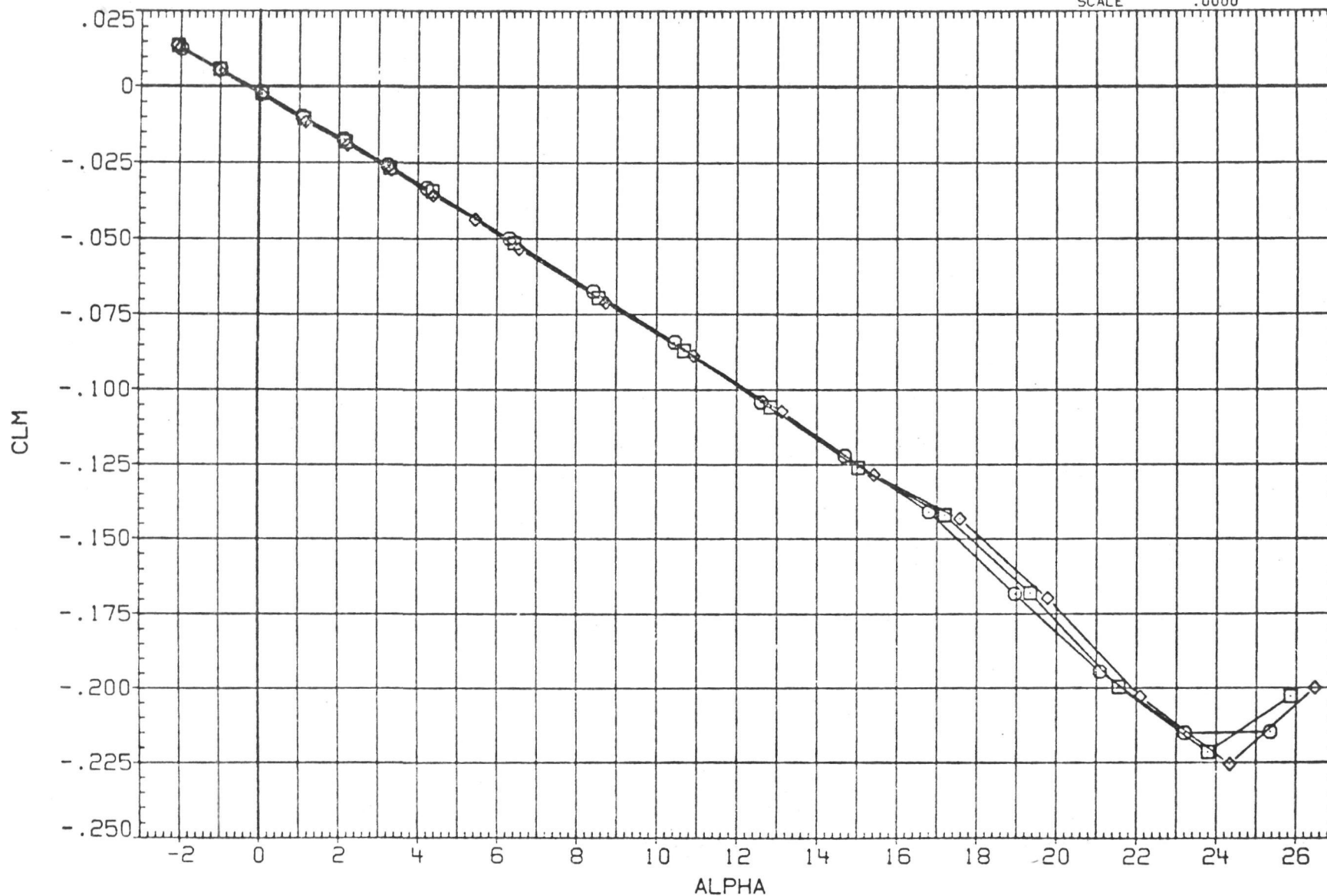


FIGURE 31. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 475

(JNC027) WING IV 53-75-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	12.970	T/C	.000	LESWP	53.000
□	19.420	FILSWP	75.000	TESWP	7.000
◇	26.064	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0603	SQ. M.
LREF	.2549	METERS
BREF	.3331	METERS
XMRP	.2349	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

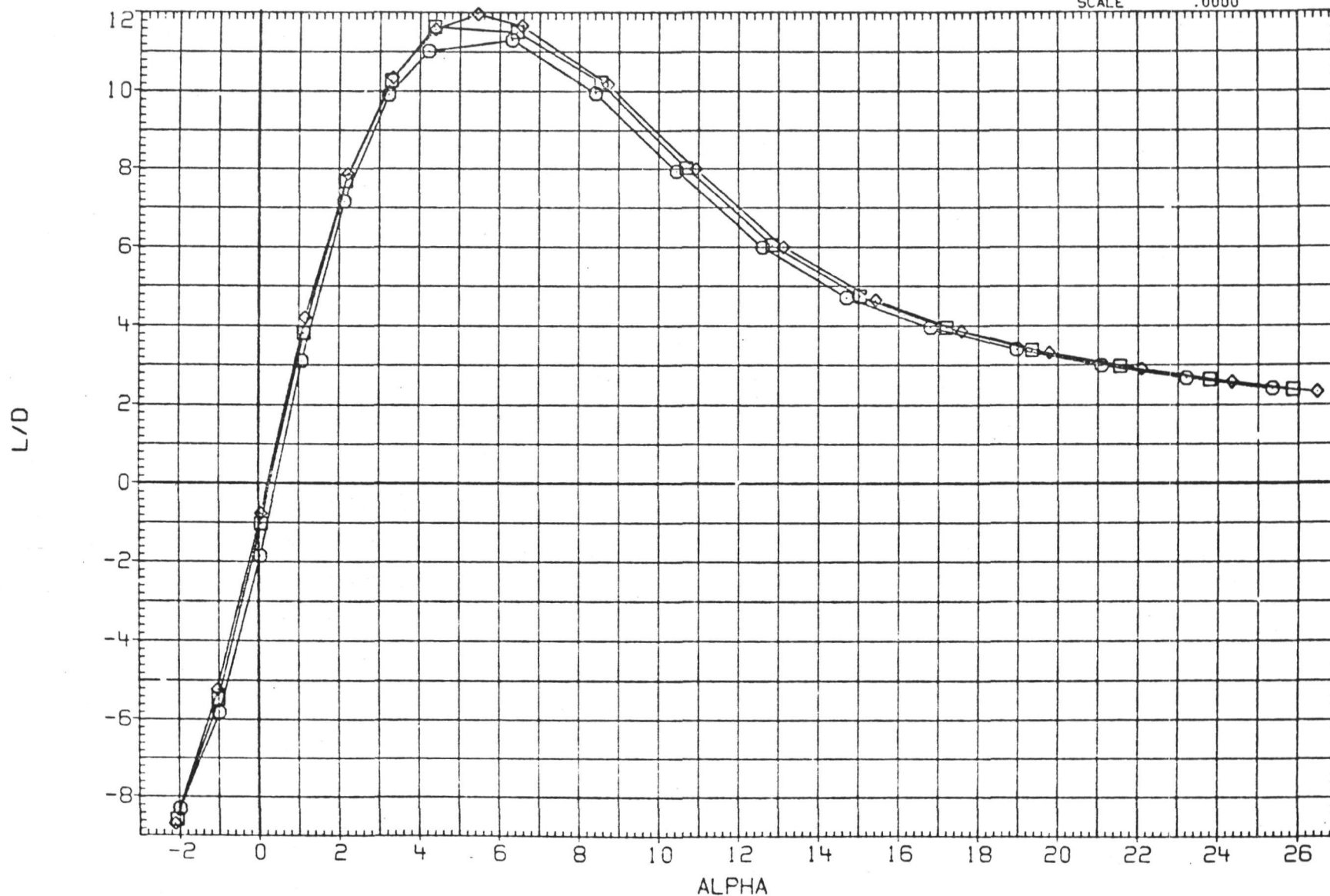


FIGURE 31. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 475

(JNC028) WING IV 53-70-0008
 SYMBOL RN/M PARAMETRIC VALUES
 ○ 19.496 T/C .080 LESWP 53.000
 □ 26.064 FILSWP 70.000 TESWP 7.000
 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0557 SQ. M.
 LREF .2226 METERS
 BREF .3331 METERS
 XMRP .1914 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

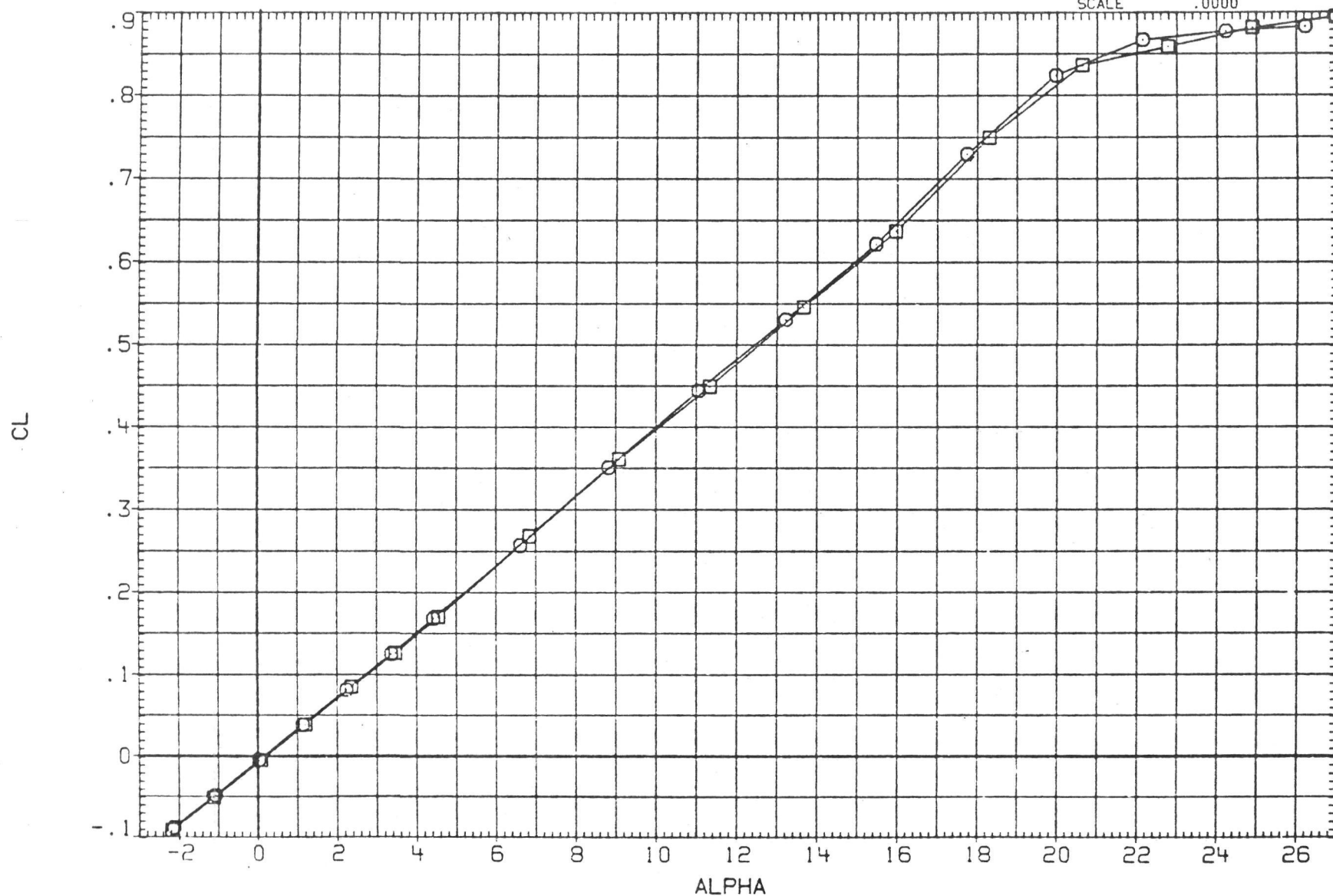


FIGURE 32. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 470

(JNC028) WING IV 53-70-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	19.496	T/C	.080	LESWP	53.000
□	26.064	FILSWP	70.000	TESWP	7.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0557	SQ. M.
LREF	.2226	METERS
BREF	.3331	METERS
XMRP	.1914	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

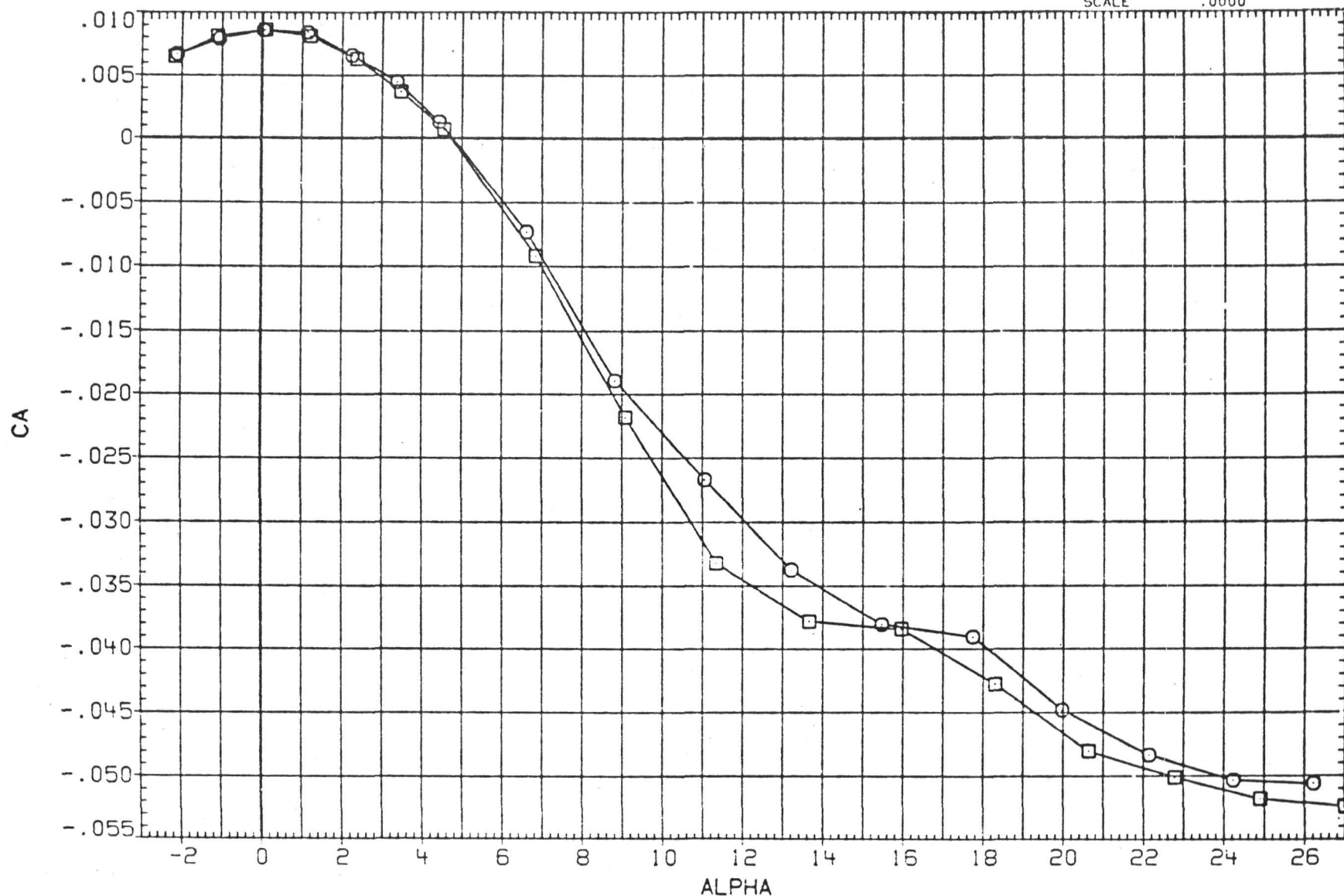


FIGURE 32. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 470

SYMBOL

RN/M

PARAMETRIC VALUES

REFERENCE INFORMATION

○

19.496

T/C

.080

LESWP

53.000

SREF .0557

SQ. M.

□

26.064

FILSWP

70.000

TESWP

7.000

LREF .2226

METERS

BREF .3331

METERS

BETA

.000

MACH

.300

XMRP .1914

M. XB

YMRP .0000

M. YB

ZMRP .0000

M. ZB

SCALE .0000

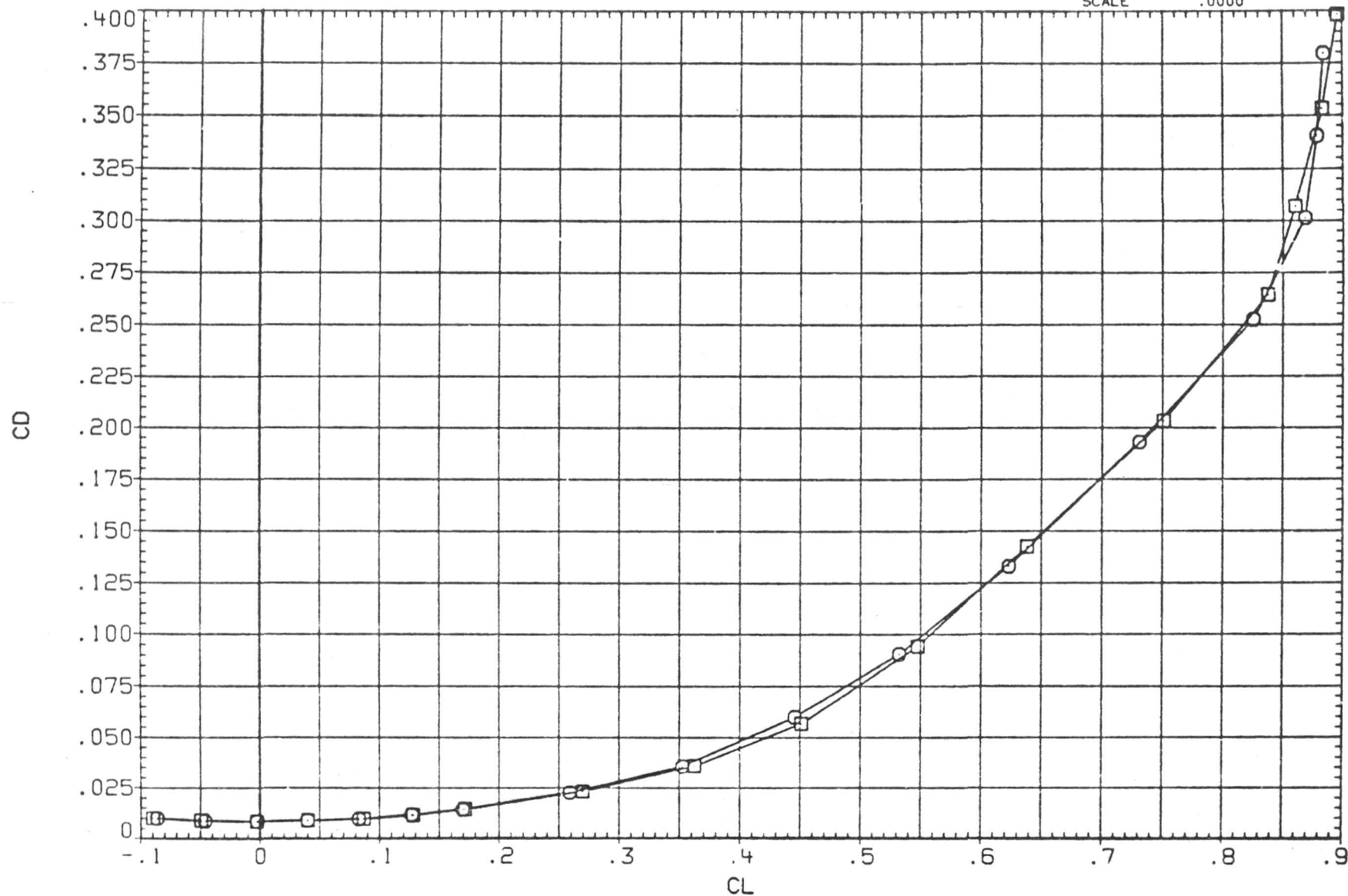


FIGURE 32. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 470

(JNC028) WING IV 53-70-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 19.496 FILSWP .080 LESWP 53.000
 □ 26.064 TESWP 7.000
 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0557 SQ. M.
 LREF .2226 METERS
 BREF .3331 METERS
 XMRP .1914 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

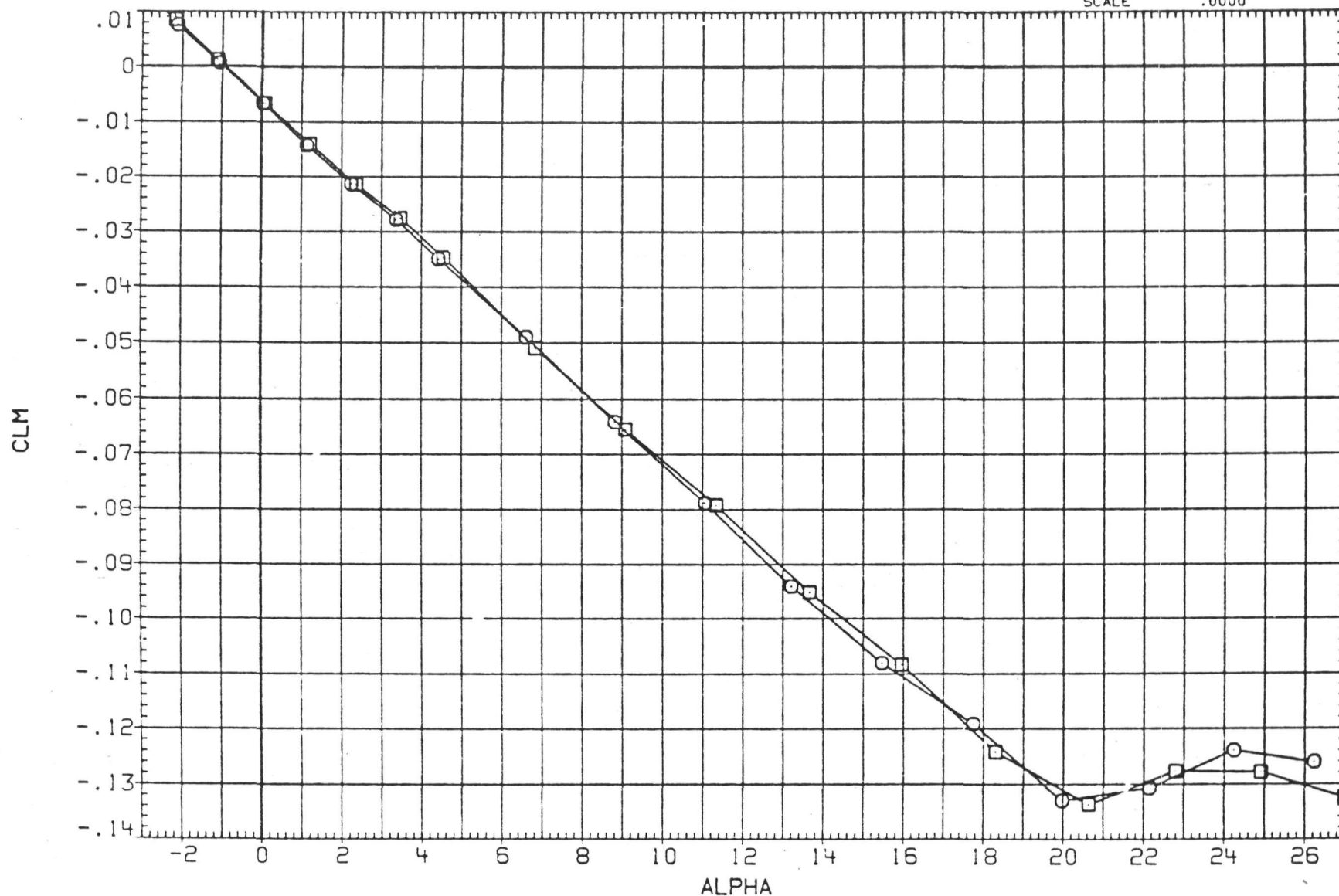


FIGURE 32. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 470

SYMBOL

RN/M

PARAMETRIC VALUES

REFERENCE INFORMATION

○

19.496

T/C

.080

LESWP

53.000

SREF .0557

SQ. M.

□

26.064

FILSWP

70.000

TESWP

7.000

LREF .2226

METERS

BREF .3331

METERS

BETA

.000

MACH

.300

XMRP .1914

M. XB

GRITNO

120.000

YMRP .0000

M. YB

ZMRP .0000

M. ZB

SCALE .0000

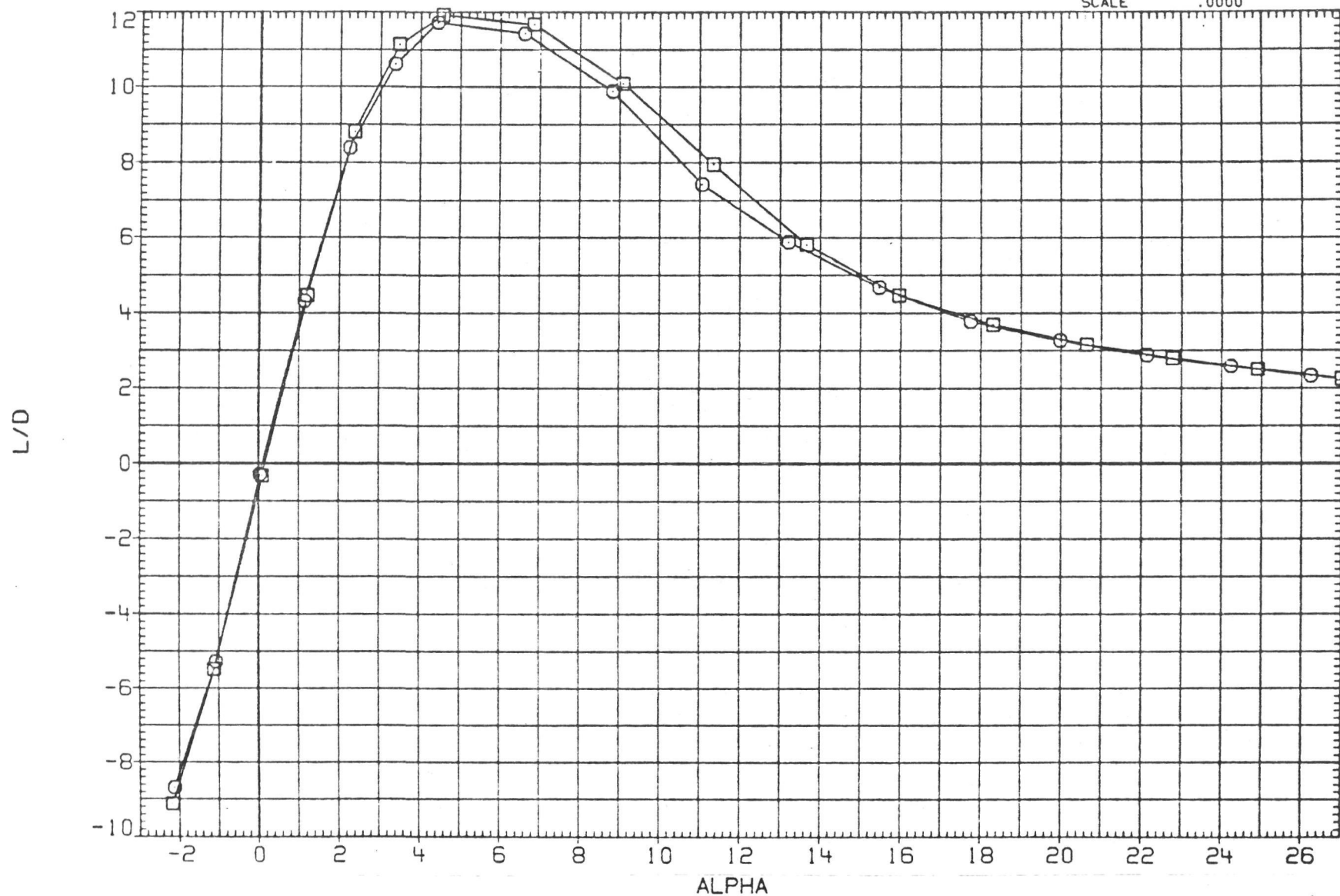


FIGURE 32. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 470

(JNC029) WING IV 53-65-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	19.620	T/C	.080	LESWP	53.000
□	26.294	FILSWP	65.000	TESWP	7.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION		
SREF	.0528	SQ. M.
LREF	.2038	METERS
BREF	.3331	M. XB
XMRP	.1639	M. YB
YMRP	.0000	M. ZB
ZMRP	.0000	
SCALE	.0000	

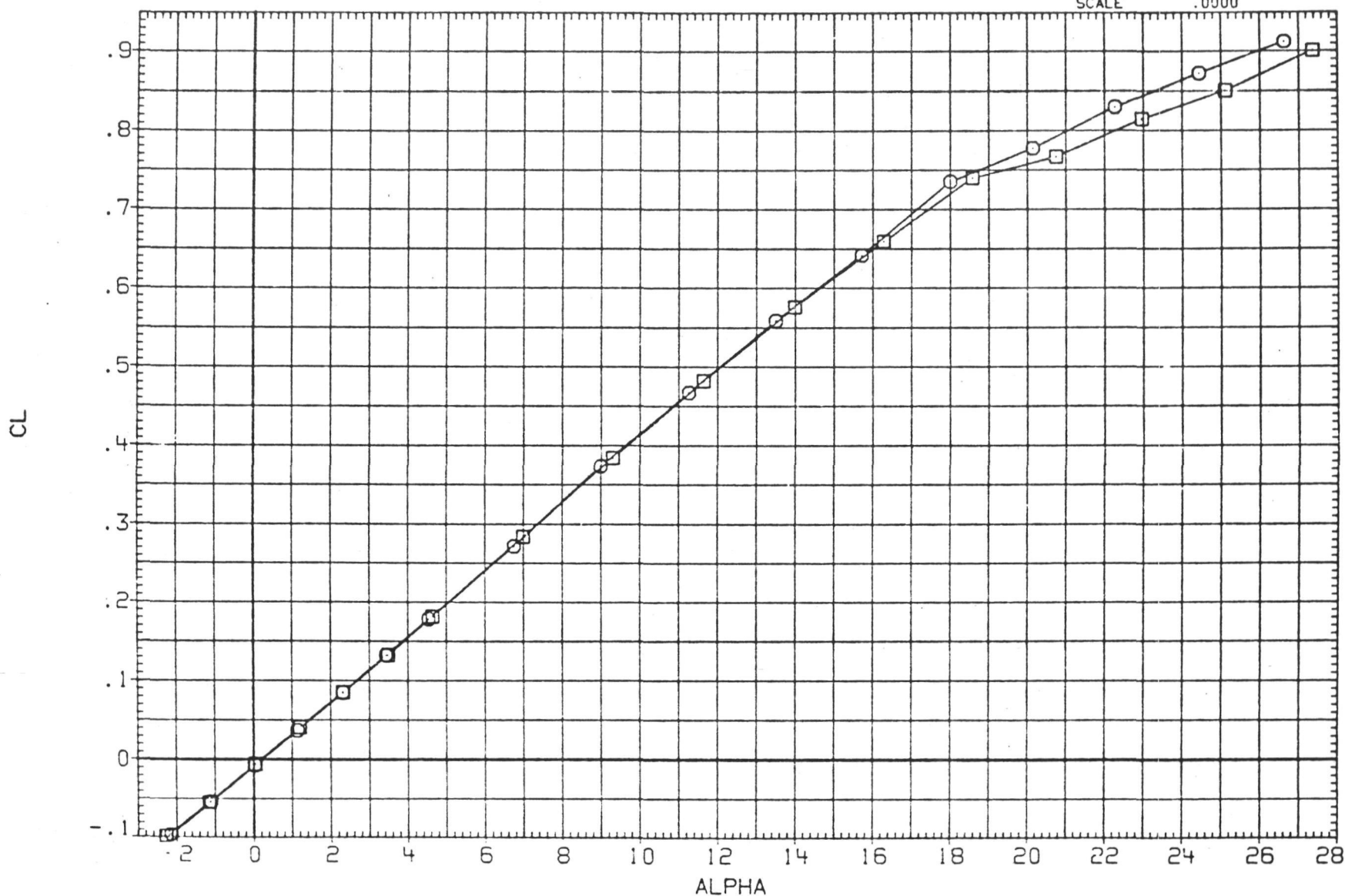


FIGURE 33. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 465

(JNC029) WING IV 53-65-0008 AMES 12-086 (LA65)

SYMBOL		RN/M		PARAMETRIC VALUES	
○	19.620	T/C	.080	LESWP	53.000
□	26.294	FILSWP	65.000	TESWP	7.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0528	50. M.
LREF	.2038	METERS
BREF	.3331	METERS
XMRP	.1639	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

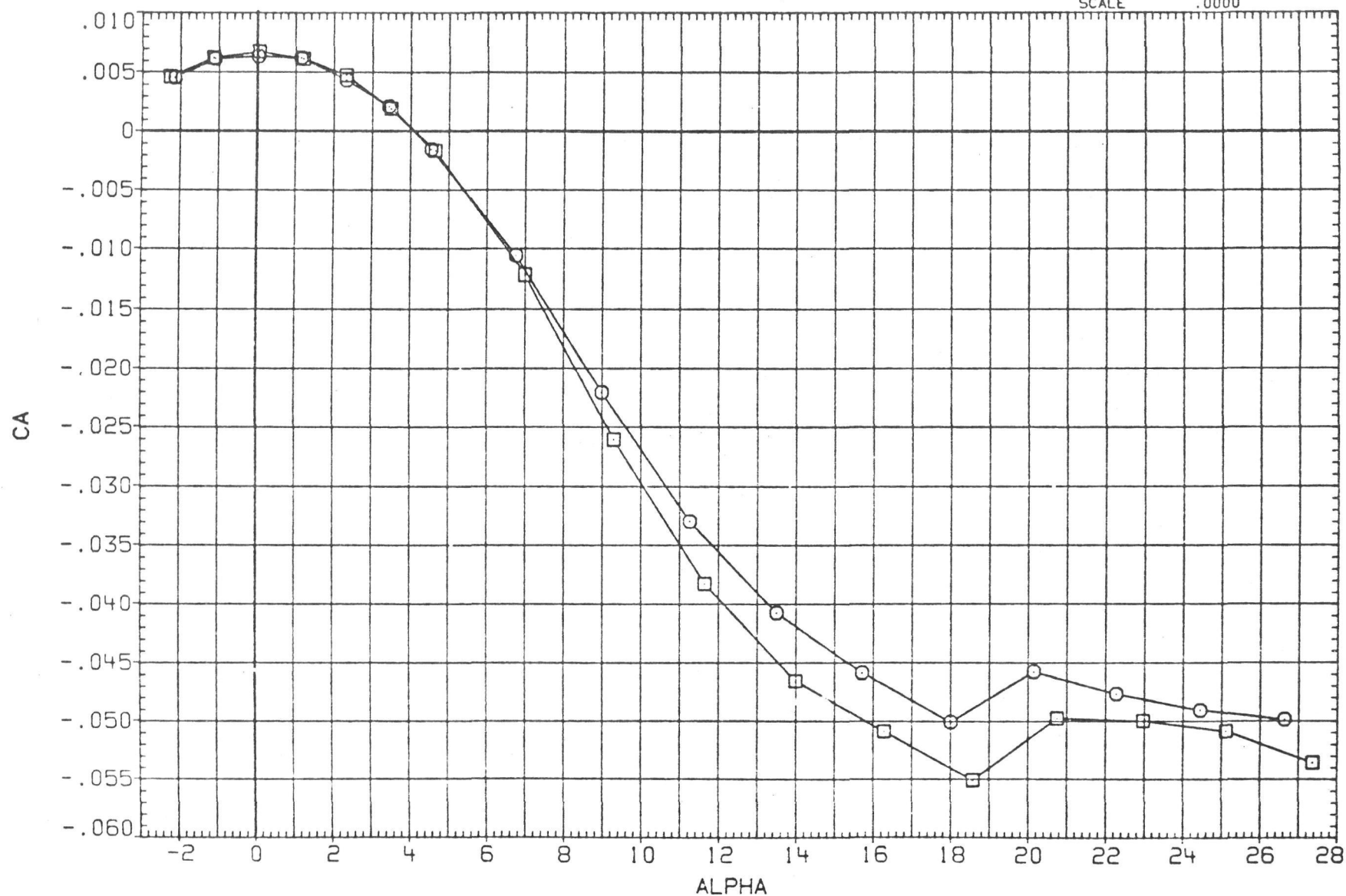


FIGURE 33. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 465

(JNC029) WING IV 53-65-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES	LESWP	TESWP
○	19.620	FILSWP	.080	53.000	7.000
□	26.294	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0528	SQ. M.
LREF	.2038	METERS
BREF	.3331	METERS
XMRP	.1639	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

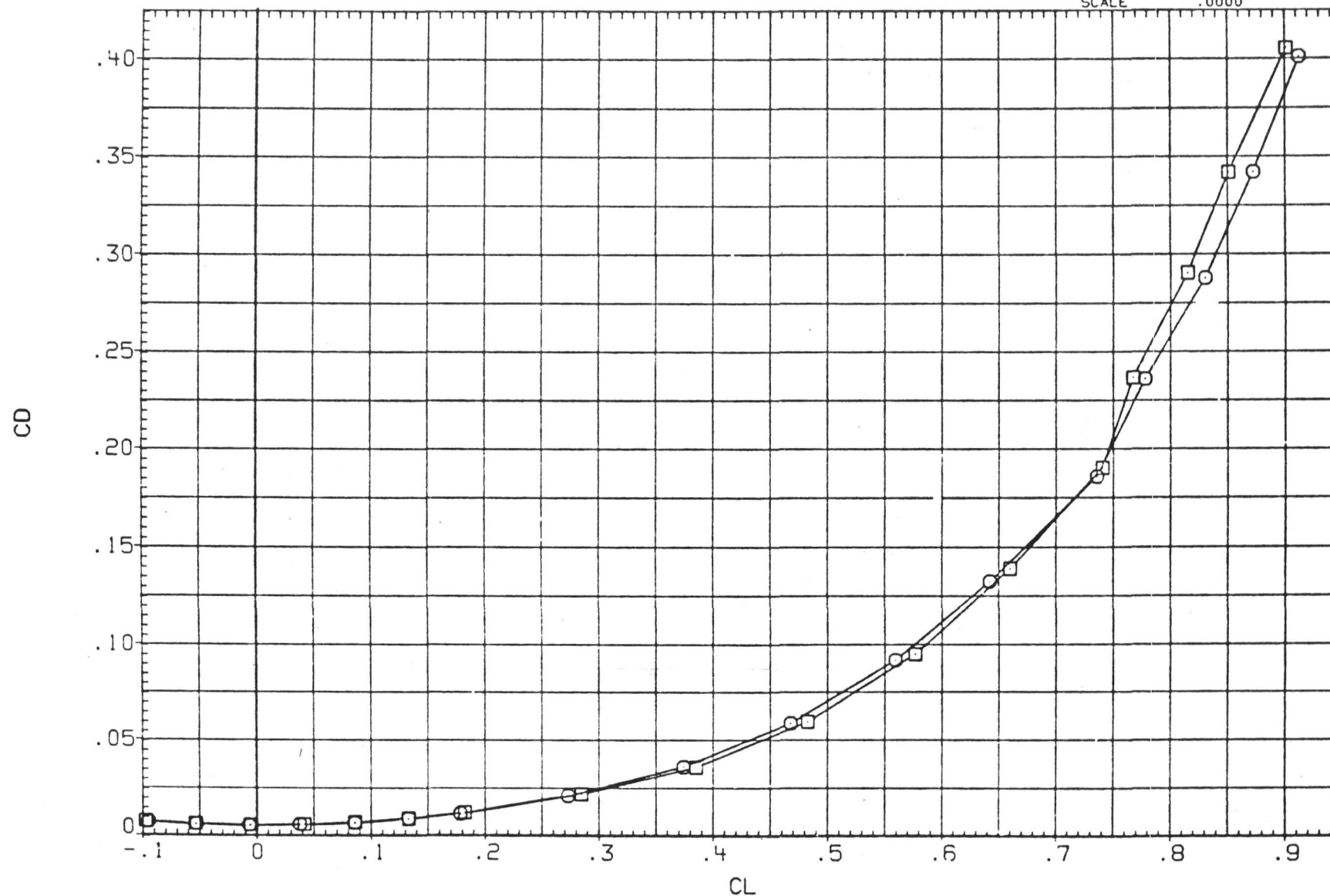


FIGURE 33. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 465

(JNC029) WING IV 53-65-0008 AMES 12-086 (LA65)

SYMBOL		PARAMETRIC VALUES			
○	19.620	T/C	.080	LESWP	53.000
□	26.294	FILSWP	65.000	TESWP	7.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0528	SQ. M.
LREF	.2038	METERS
BREF	.3331	METERS
XMRP	.1639	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	



FIGURE 33. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 465

(JNC029) WING IV 53-65-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 19.620 FILSWP .090 LESWP 53.000
 □ 26.294 BETA .000 TESWP 7.000
 GRITNO 120.000 MACH .300

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0528 SQ. M.
 LREF .2038 METERS
 BREF .3331 METERS
 XMRP .1639 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

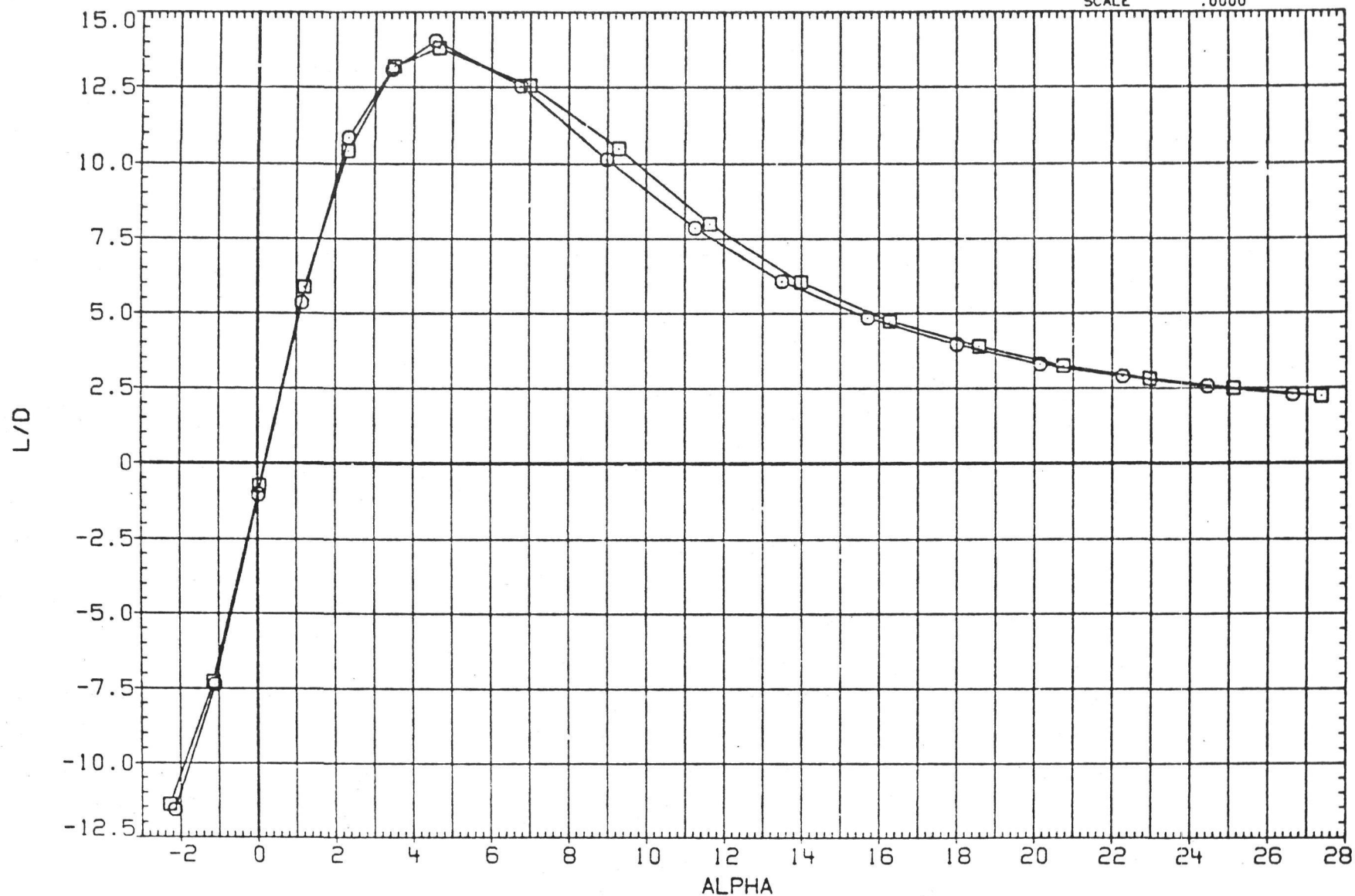


FIGURE 33. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 465

(JNC030) WING IV 53-60-0008
 SYMBOL RN/M PARAMETRIC VALUES
 ○ 19.607 T/C .080 LESWP 53.000
 □ 26.255 FILSWP 60.000 TESWP 7.000
 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SRFF .0509 SQ. M.
 LREF .1116 METERS
 BREF .3331 METERS
 XMRP .1446 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

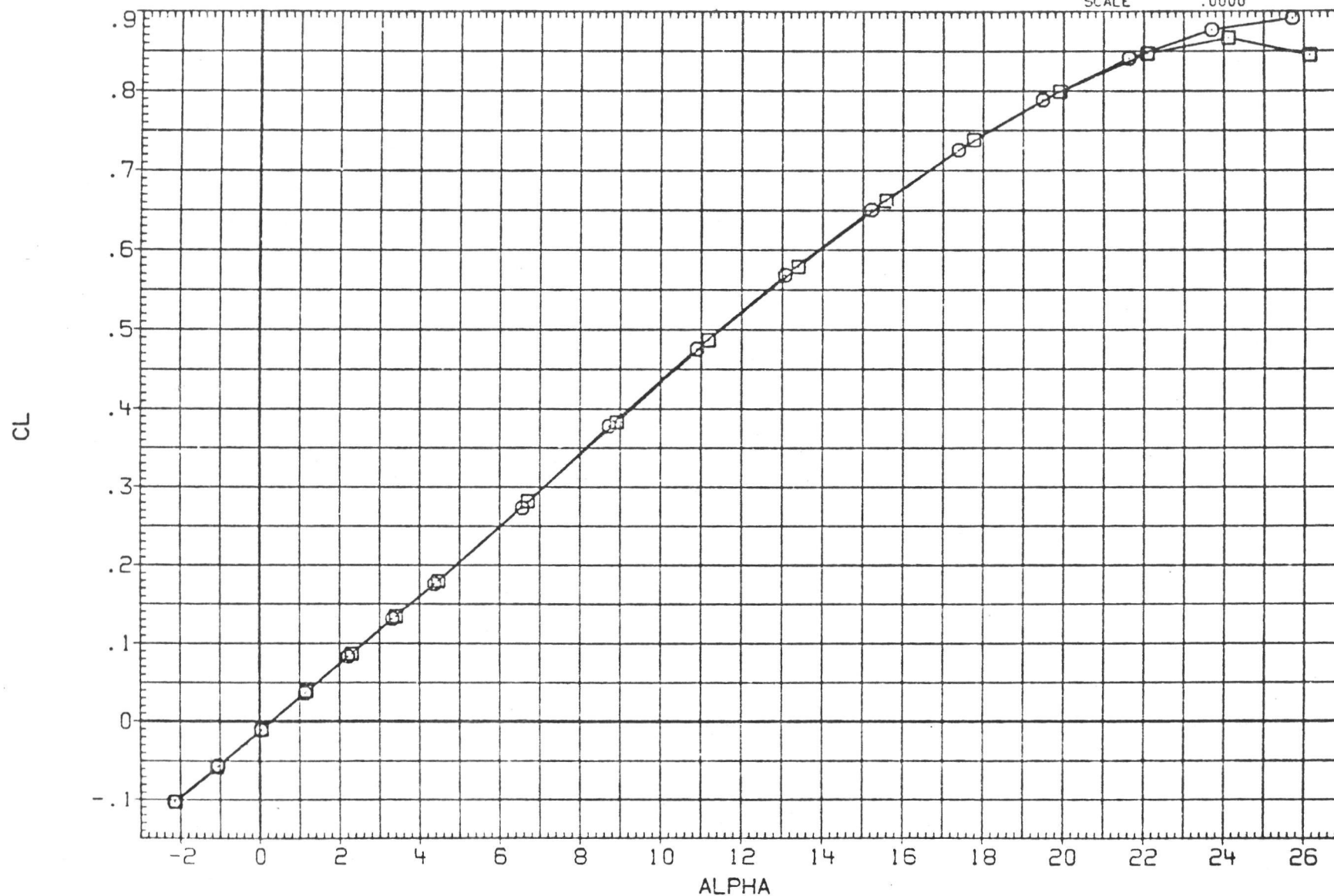


FIGURE 34. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 460

(JNC030) WING IV 53-60-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	19.607	T/C	.080	LESWP	53.000
□	26.255	FILSWP	60.000	TESWP	7.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0509	SO. M.
LREF	.1916	METERS
BREF	.3331	METERS
XMRP	.1446	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

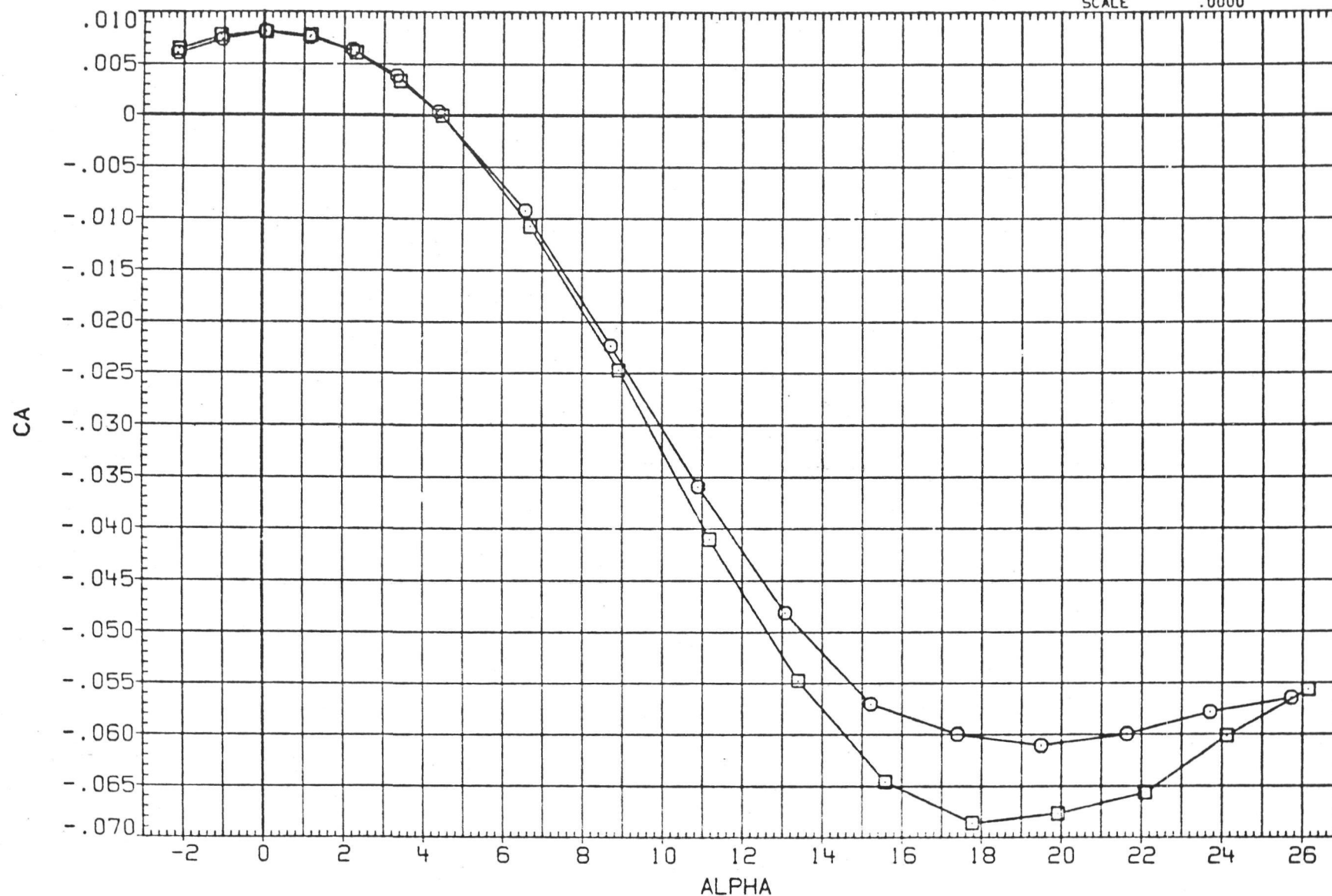


FIGURE 34. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 460

(JNC030) WING IV 53-60-0008
 SYMBOL RN/M PARAMETRIC VALUES
 ○ 19.607 T/C .080 LESWP 53.000
 □ 26.255 FILSWP 60.000 TESWP 7.000
 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0509 SQ. M.
 LREF .1916 METERS
 BREF .3331 METERS
 XMRP .1446 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

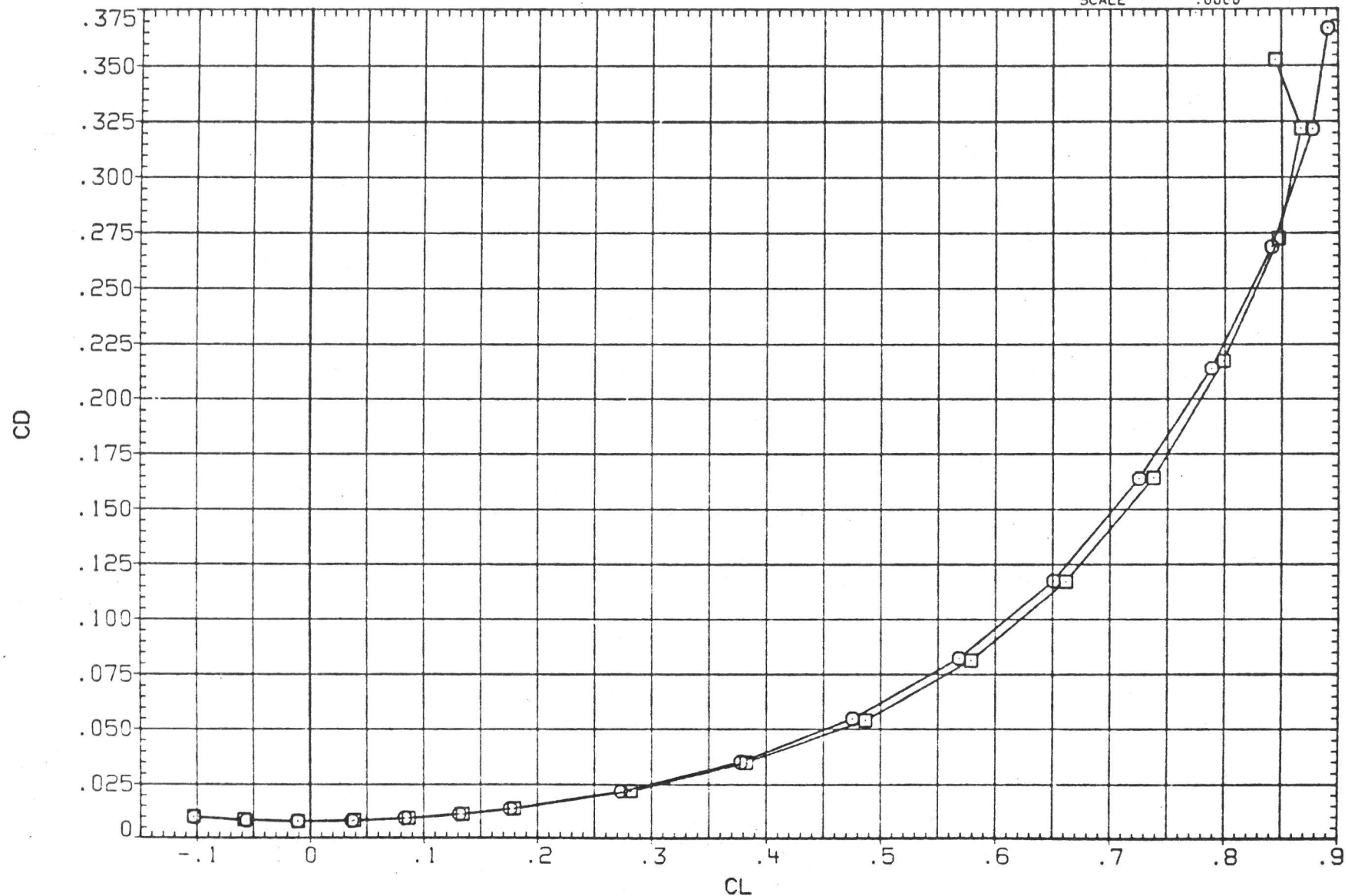


FIGURE 34. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 460

(JNC030) WING IV 53-60-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	19.607	T/C	.080	LESWP	53.000
□	26.255	FILSWP	60.000	TESWP	7.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0509	SQ. M.
LREF	.1916	METERS
BREF	.3331	METERS
XMRP	.1446	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

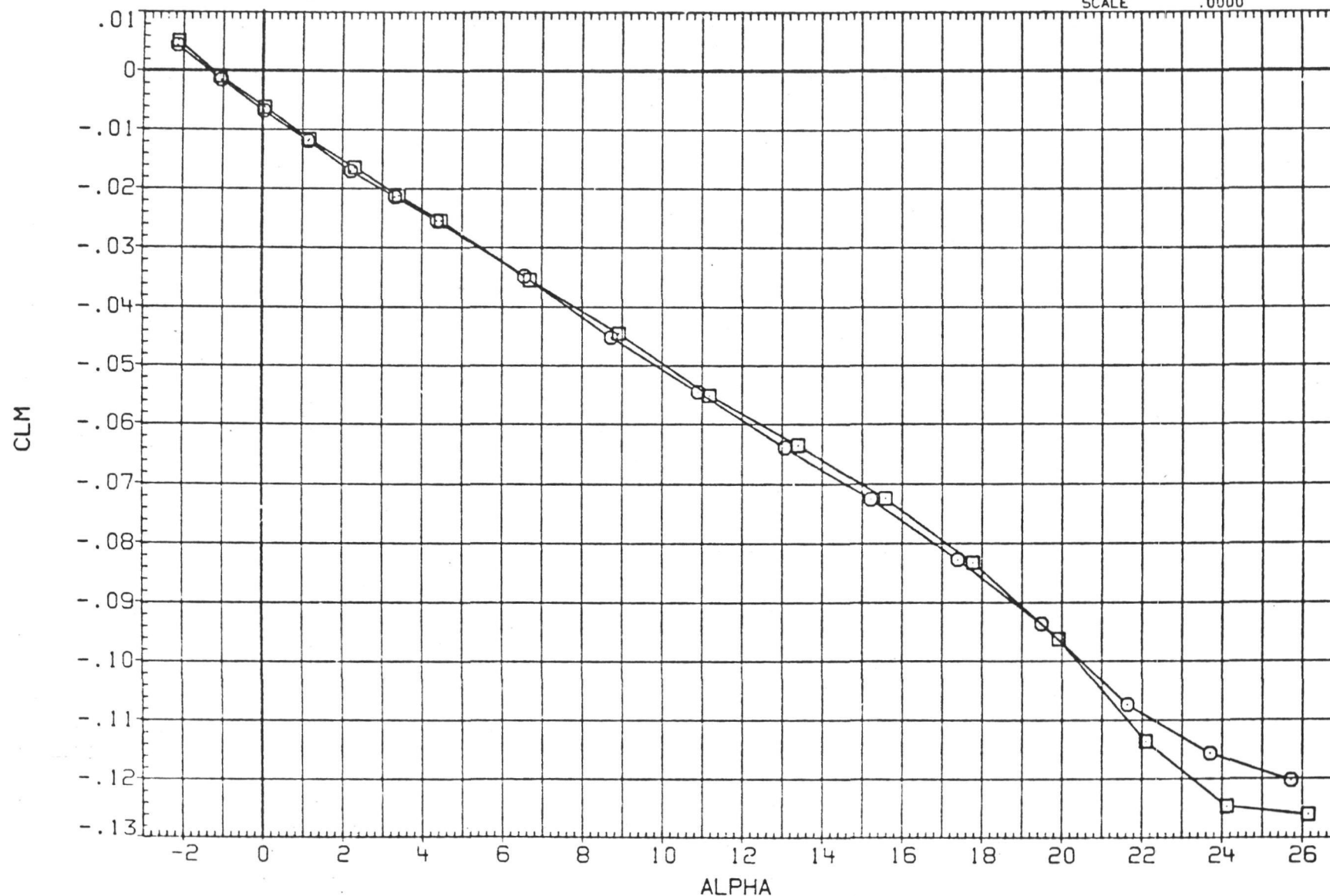


FIGURE 34. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 460

(JNC030) WING IV 53-60-0008 AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES	LESWP	TESWP	MACH
○	19.607	FILSWP	.080	53.000	7.000	
□	26.255	BETA	60.000			
		GRITNO	120.000			

REFERENCE INFORMATION

SREF	.0509	SQ. M.
LREF	.1916	METERS
BREF	.3331	METERS
XMRP	.1446	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

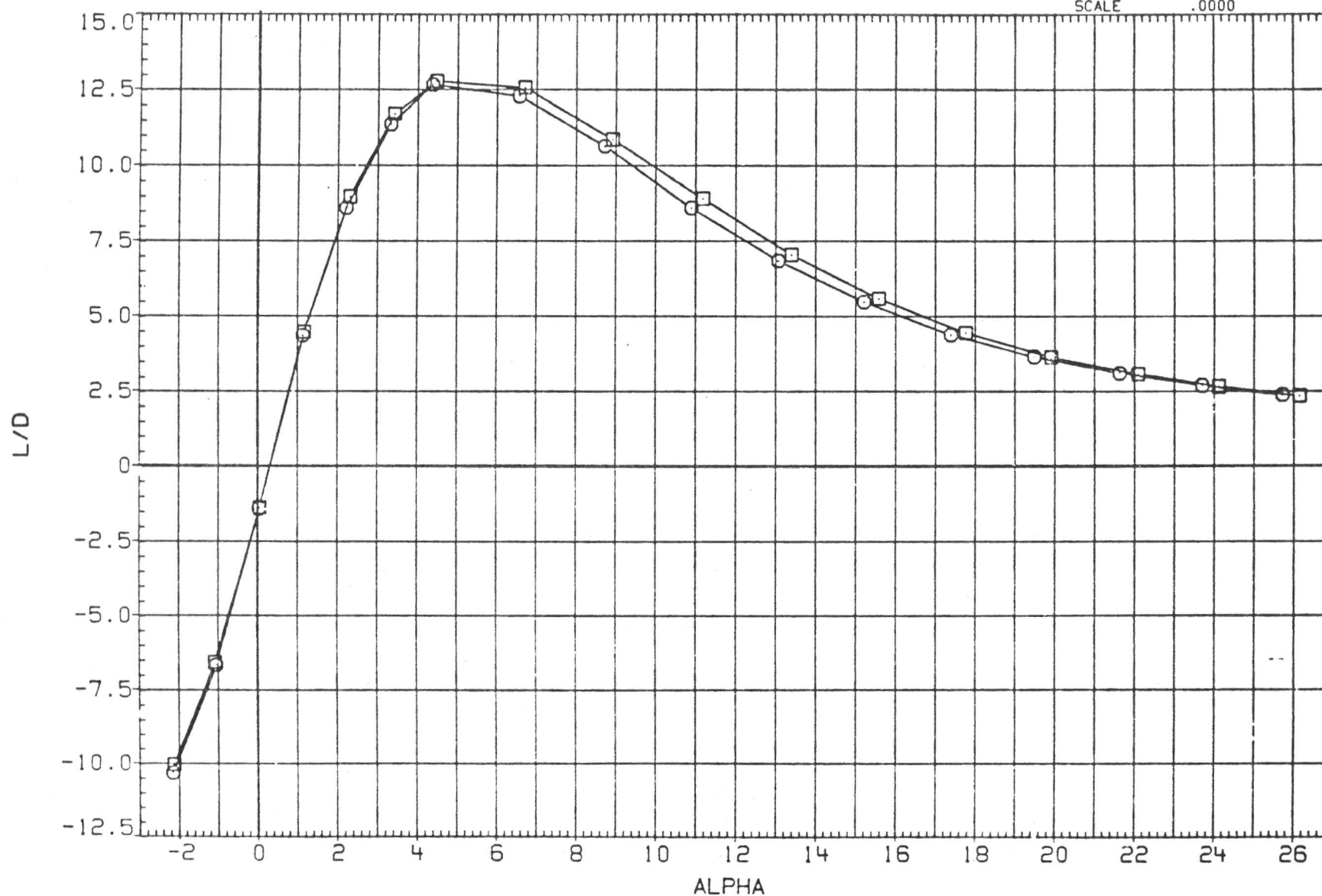


FIGURE 34. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 460

(JNC031) WING V 60-60-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 6.293 .080 LESWP 60.000
 □ 13.078 FILSWP 60.000 TESWP .000
 ◇ 19.551 BETA .000 MACH .300
 △ 26.182 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0490 SQ. M.
 LREF .1942 METERS
 BREF .3331 METERS
 XMRP .1456 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

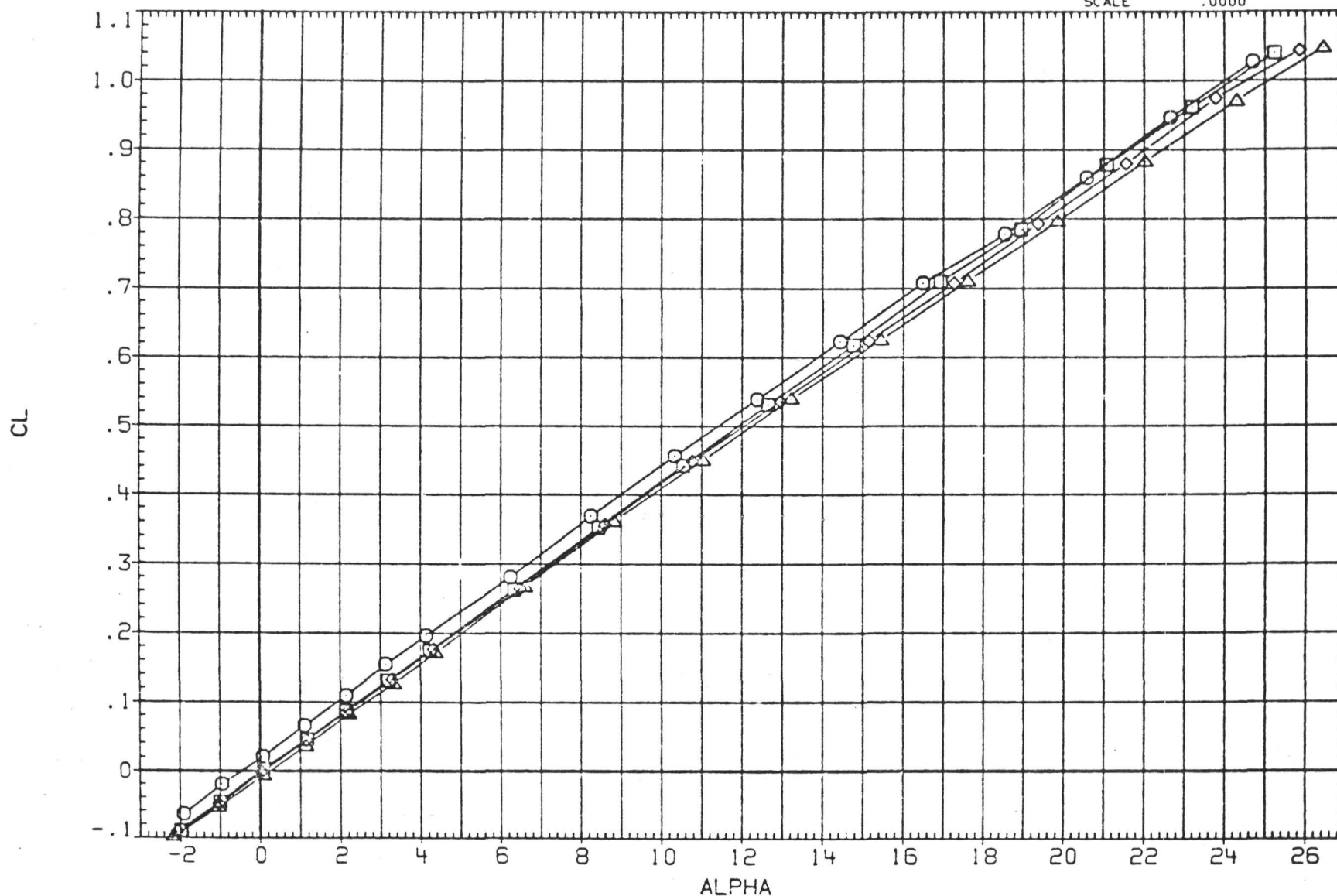


FIGURE 35. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 560
 (LEADING EDGE EXTENSION OFF)

(JNC031)

WING V

60-60-0008

AMES 12-086 (LA65)

SYMBOL

RN/M

PARAMETRIC VALUES

REFERENCE INFORMATION

○	6.293	T/C	.080	LESWP	60.000
□	13.078	FILSWP	60.000	TESWP	.000
◇	19.551	BETA	.000	MACH	.300
△	26.182	GRITNO	120.000		

SREF	.0490	SQ. M.
LREF	.1942	METERS
BREF	.3331	METERS
XMRP	.1456	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

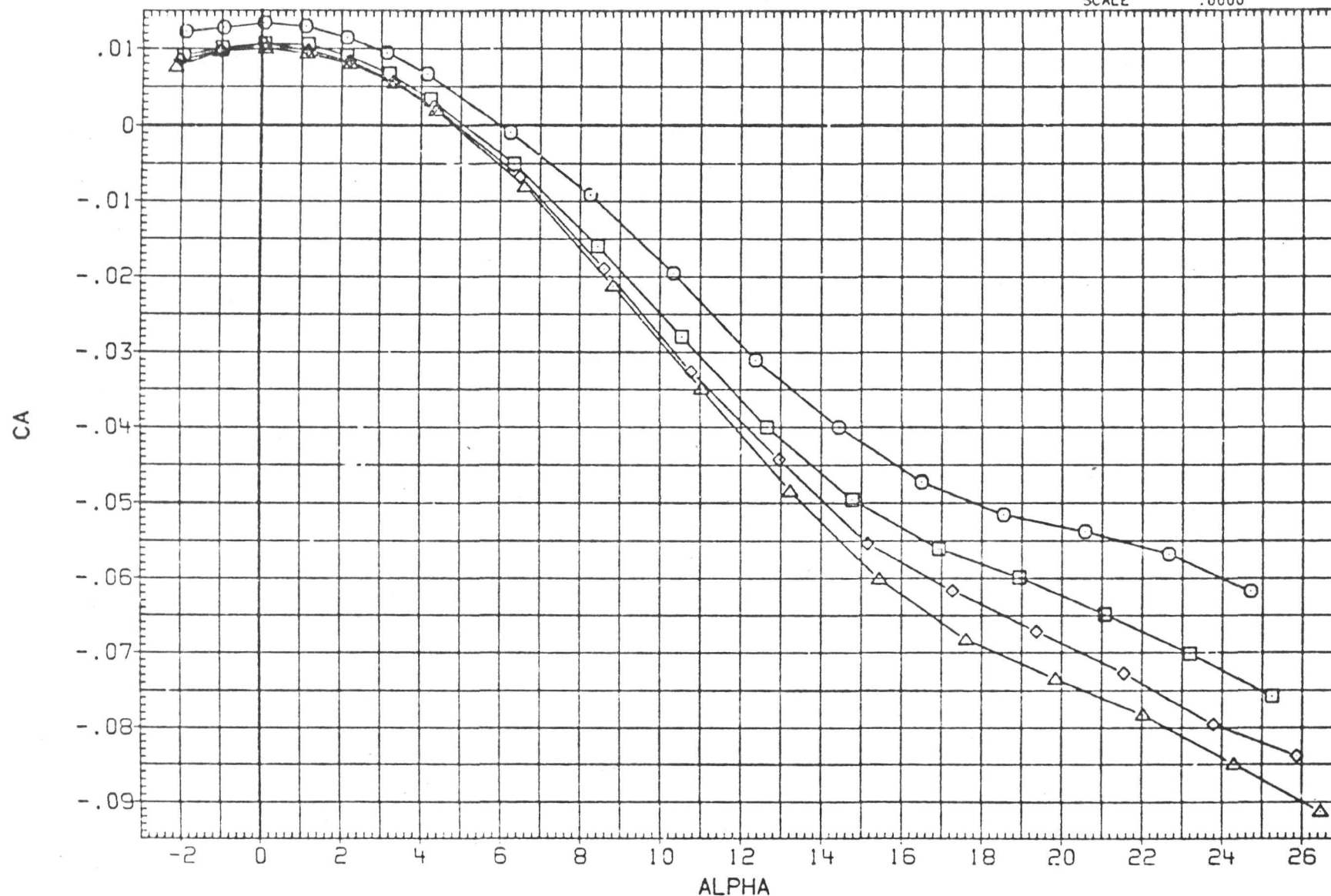


FIGURE 35. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 560
(LEADING EDGE EXTENSION OFF)

(JNC031) WING V 60-60-0008
 SYMBOL RN/M T/C .080 LESWP 60.000
 □ 13.078 FILSWP 60.000 TESWP .000
 ◇ 19.551 BETA .000 MACH .300
 △ 26.182 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0490 SQ. M.
 LREF .1942 METERS
 BREF .3331 METERS
 XMRP .1456 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

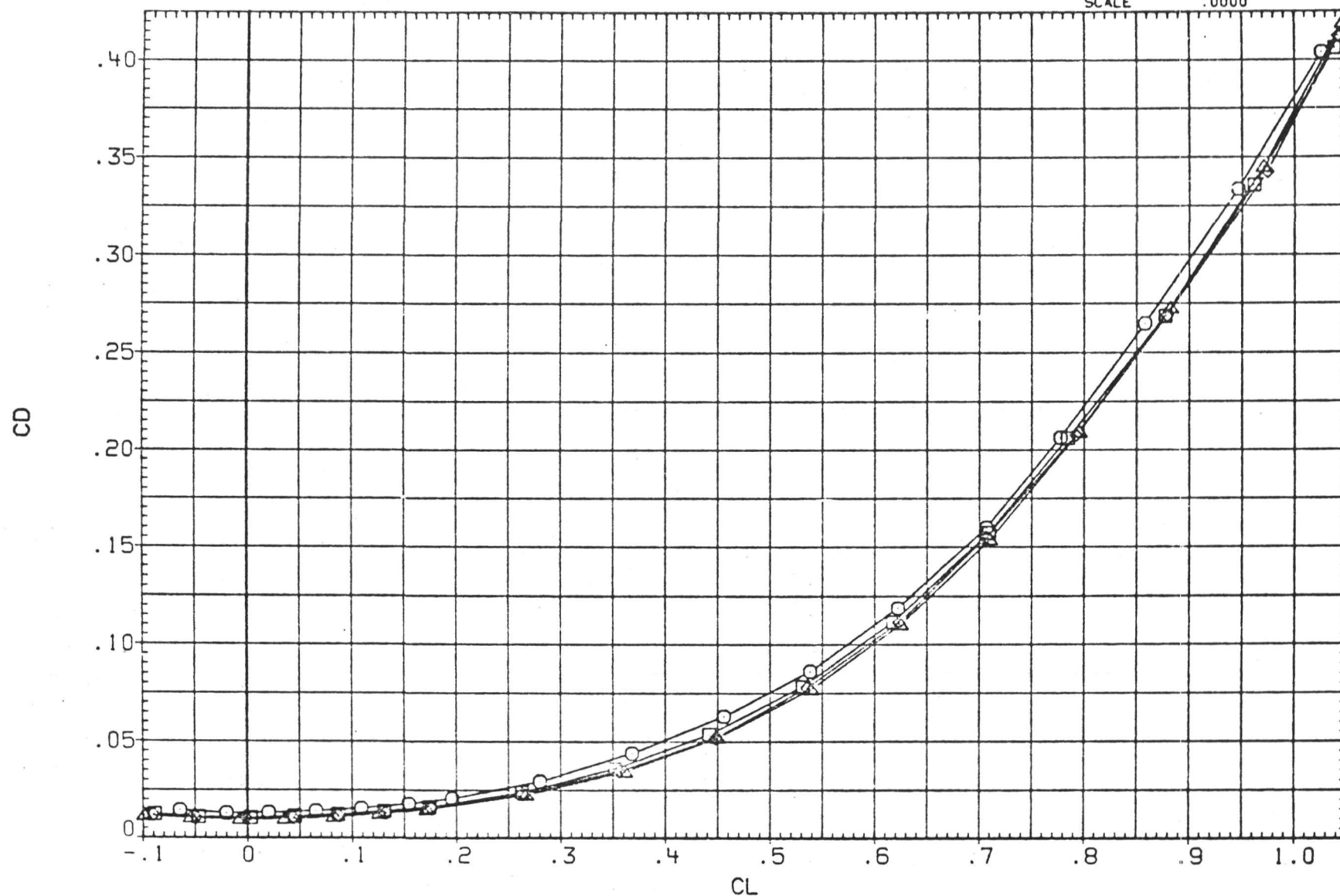


FIGURE 35. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 560
 (LEADING EDGE EXTENSION OFF)

(JNC031)

WING V

60-60-0008

AMES 12-086 (LA65)

SYMBOL

RN/M

T/C

PARAMETRIC VALUES

REFERENCE INFORMATION

SREF	.0490	SO. M.
LREF	.1942	METERS
BREF	.3331	METERS
XMRP	.1456	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

○	6.293	T/C	.080	LESWP	60.000
□	13.078	FILSWP	60.000	TESWP	.000
◇	19.551	BETA	.000	MACH	.300
△	26.182	GRITNO	120.000		

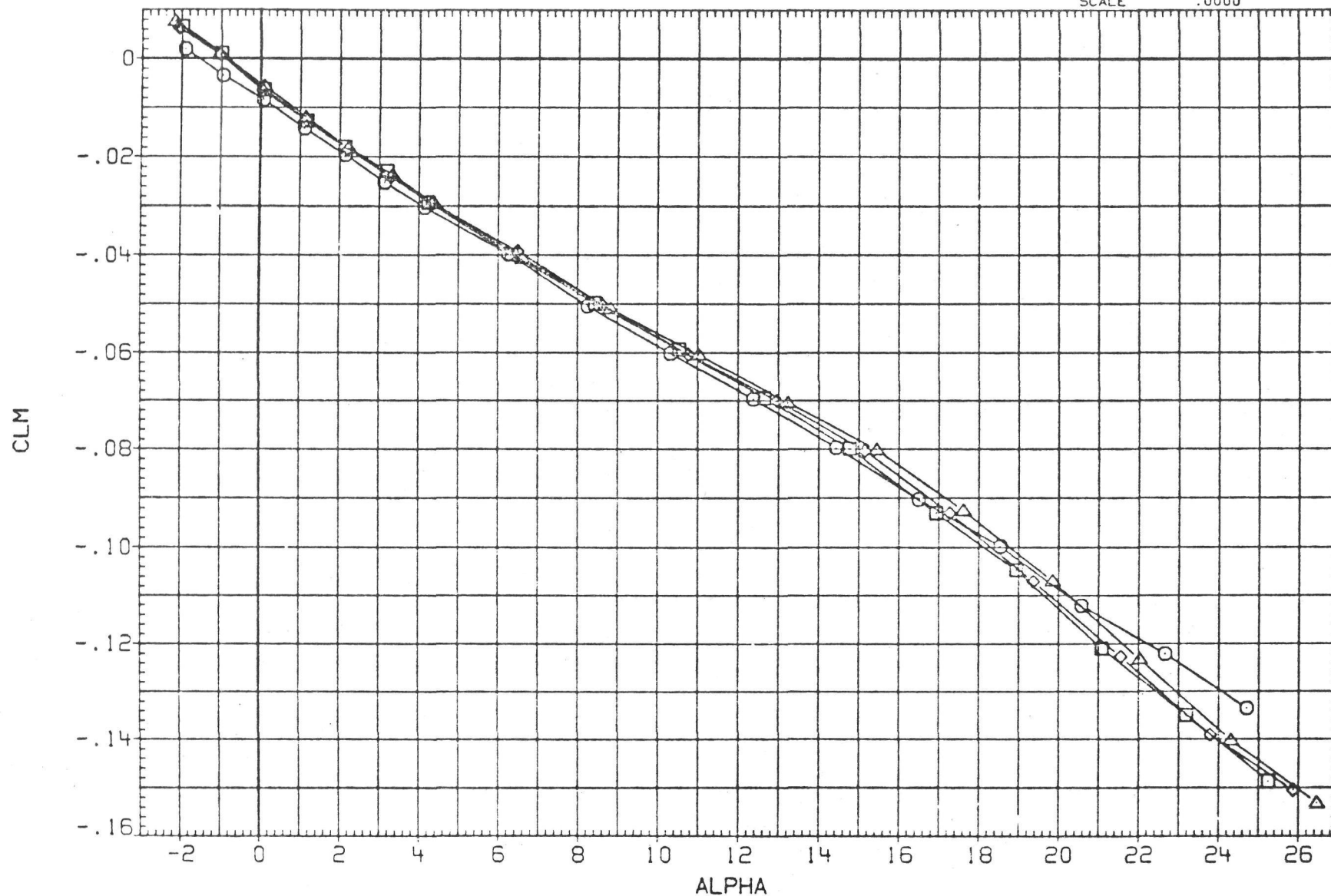


FIGURE 35. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 560
(LEADING EDGE EXTENSION OFF)

(JNC031) WING V 60-60-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 6.293 LESWP 60.000
 □ 13.078 FILSWP 60.000
 ◇ 19.551 BETA .000
 △ 26.182 GRITNO 120.000

AMES 12-086 (LA55)

REFERENCE INFORMATION
 SREF .0490 SQ. M.
 LREF .1942 METERS
 BREF .3331 METERS
 XMRP .1456 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

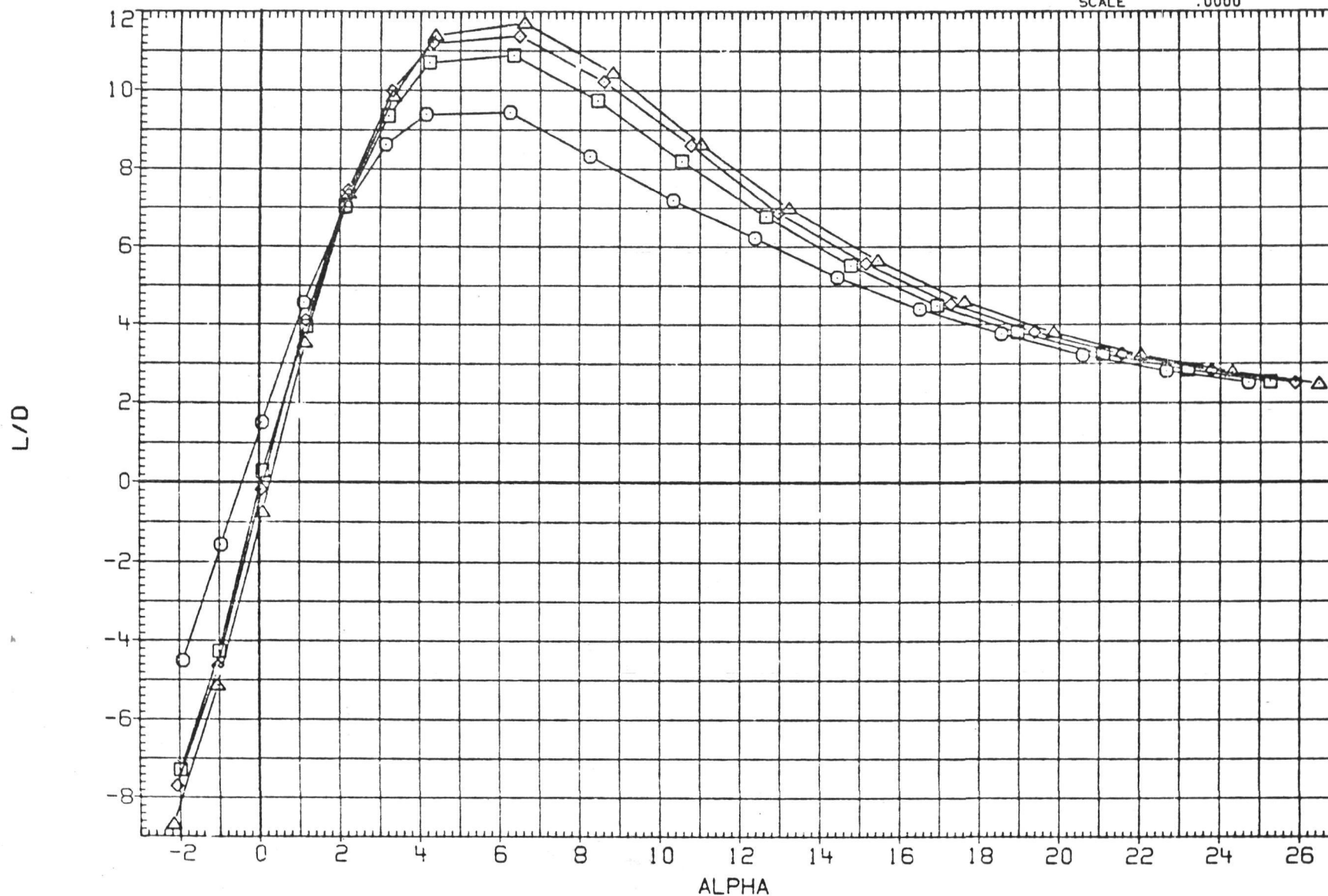


FIGURE 35. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 560
 (LEADING EDGE EXTENSION OFF)

(JNC032) WING V 60-80-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 13.065 .080 LESWP 60.000
 □ 19.479 FILSWP 80.000 TESWP .000
 ◇ 26.153 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0675 SQ. M.
 LREF .3284 METERS
 BREF .3331 METERS
 XMRP .3150 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

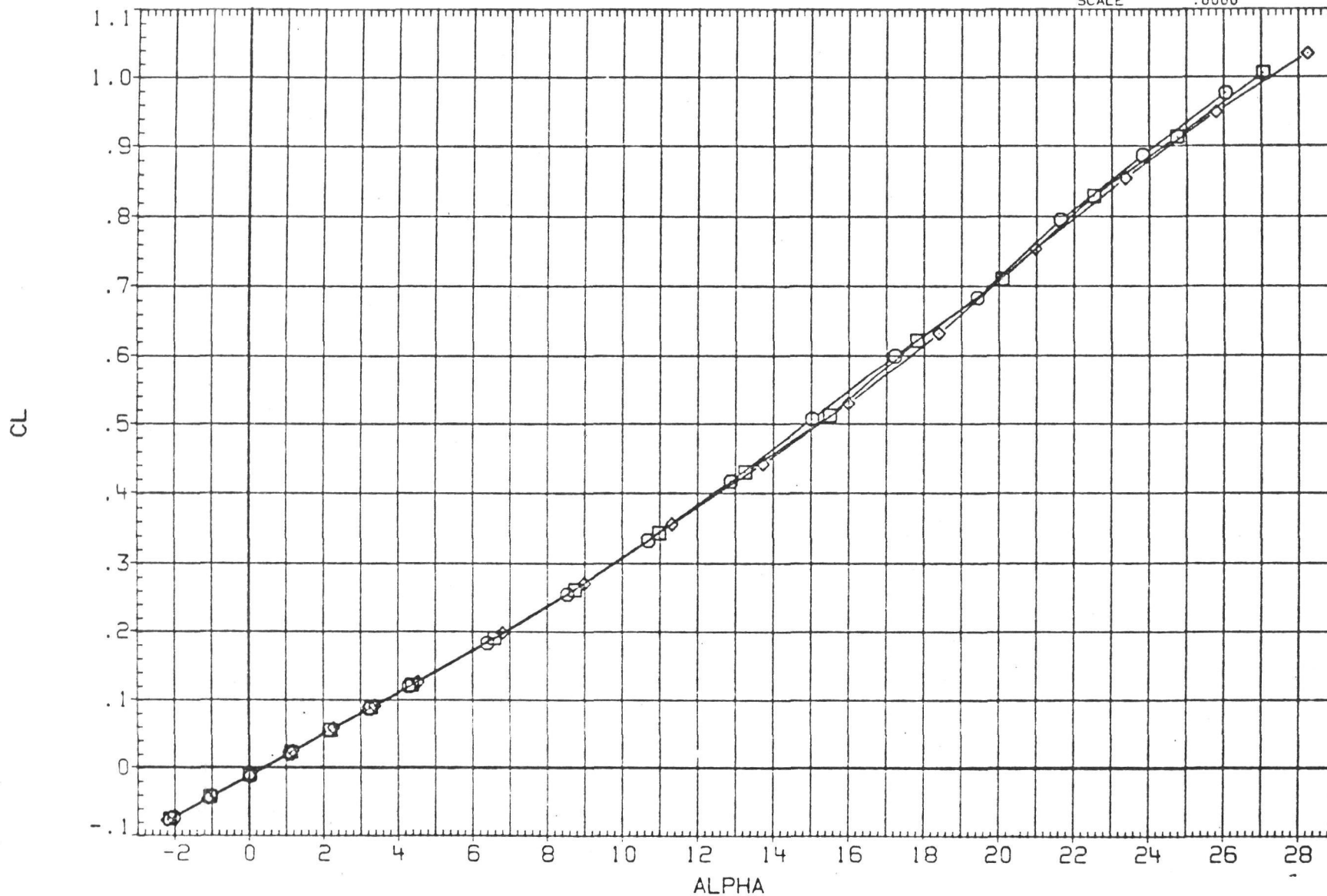


FIGURE 36. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 580

(JNC032) WING V 60-80-0008
 SYMBOL RN/M T/C FILSWP BETA GRITNO
 ○ 13.065 .080 LESWP 60.000
 □ 19.479 80.000 TESWP .000
 ◇ 26.153 .000 MACH .300

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0675 SQ. M.
 LREF .3284 METERS
 BREF .3331 METERS
 XMRP .3150 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

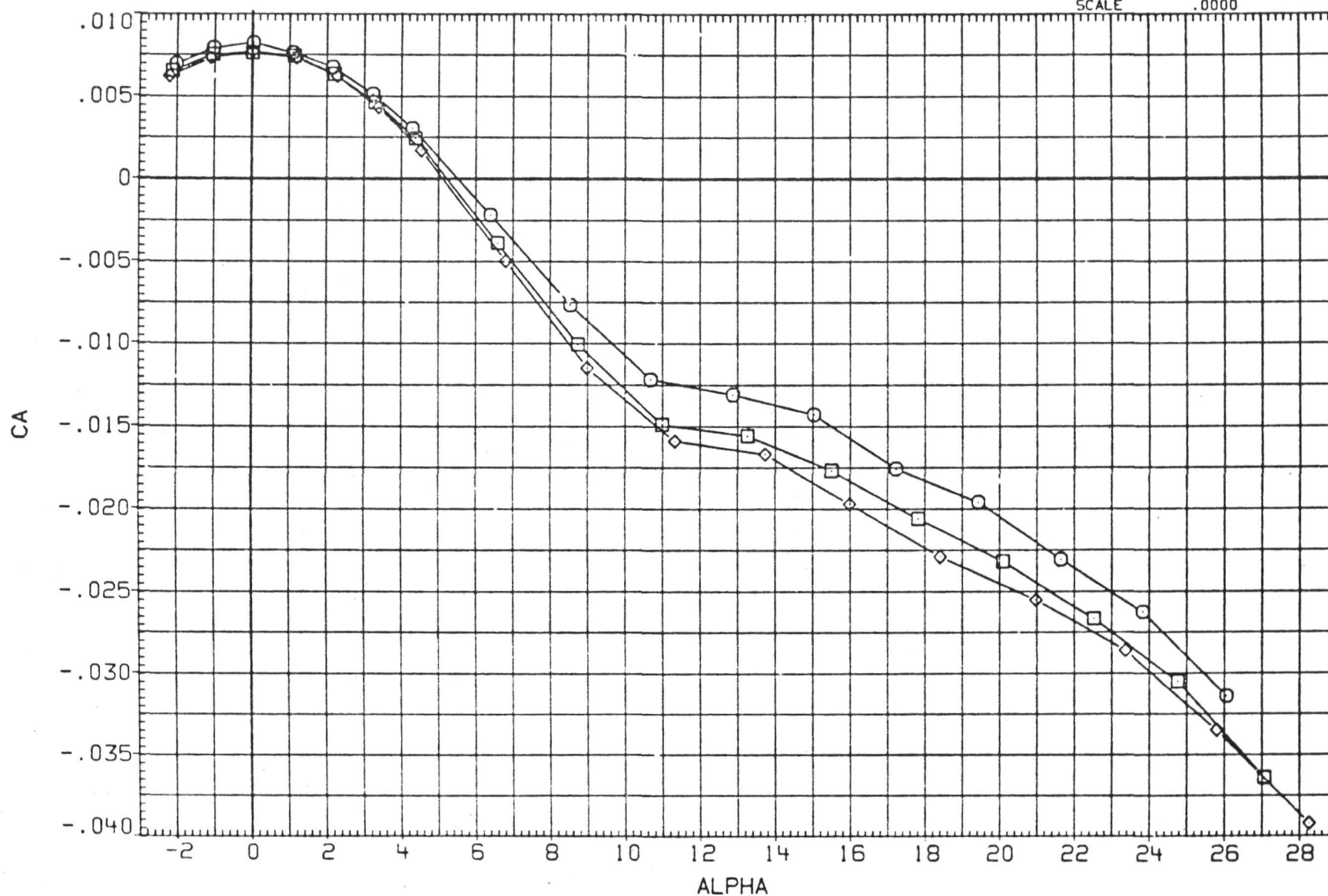


FIGURE 36. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 580

(JNC032) WING V 60-80-0008 AMES 12-086 (LA65)

PARAMETRIC VALUES	
SYMBOL	RN/M
○	13.065
□	19.479
◇	26.153

PARAMETRIC VALUES	
T/C	.080
FILSWP	80.000
BETA	.000
GRITNO	120.000
LESWP	60.000
TESWP	.000
MACH	.300

REFERENCE INFORMATION

SREF	.0675	SO. M.
LREF	.3284	METERS
BREF	.3331	METERS
XMRP	.3150	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

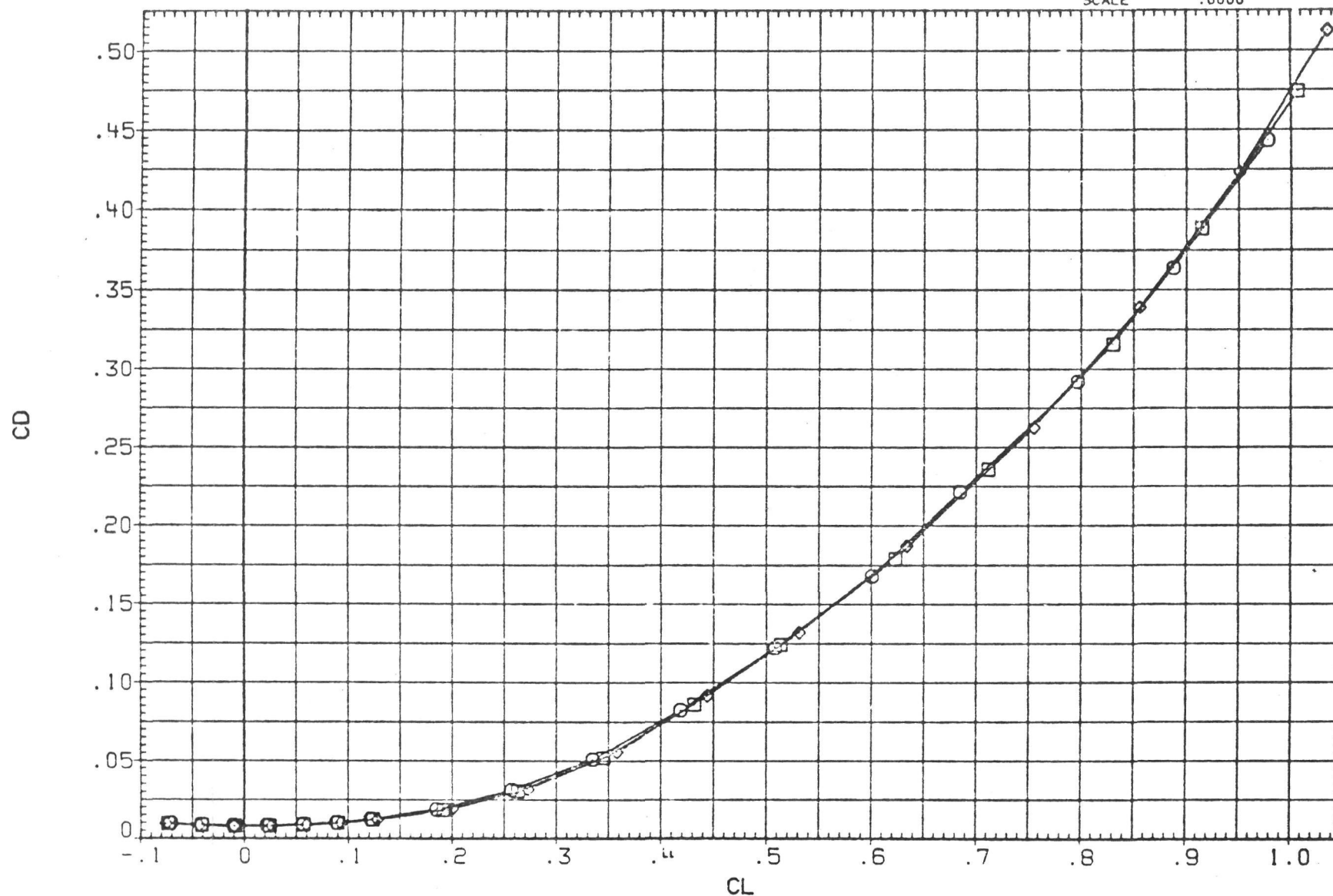


FIGURE 36. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 580

(JNC032) WING V 60-80-0008
 SYMBOL RN/M T/C LESWP 60.000
 13.065 FILSWP 80.000
 19.479 BETA .000
 26.153 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0675 SQ. M.
 LREF .3284 METERS
 BREF .3331 METERS
 XMRP .3150 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

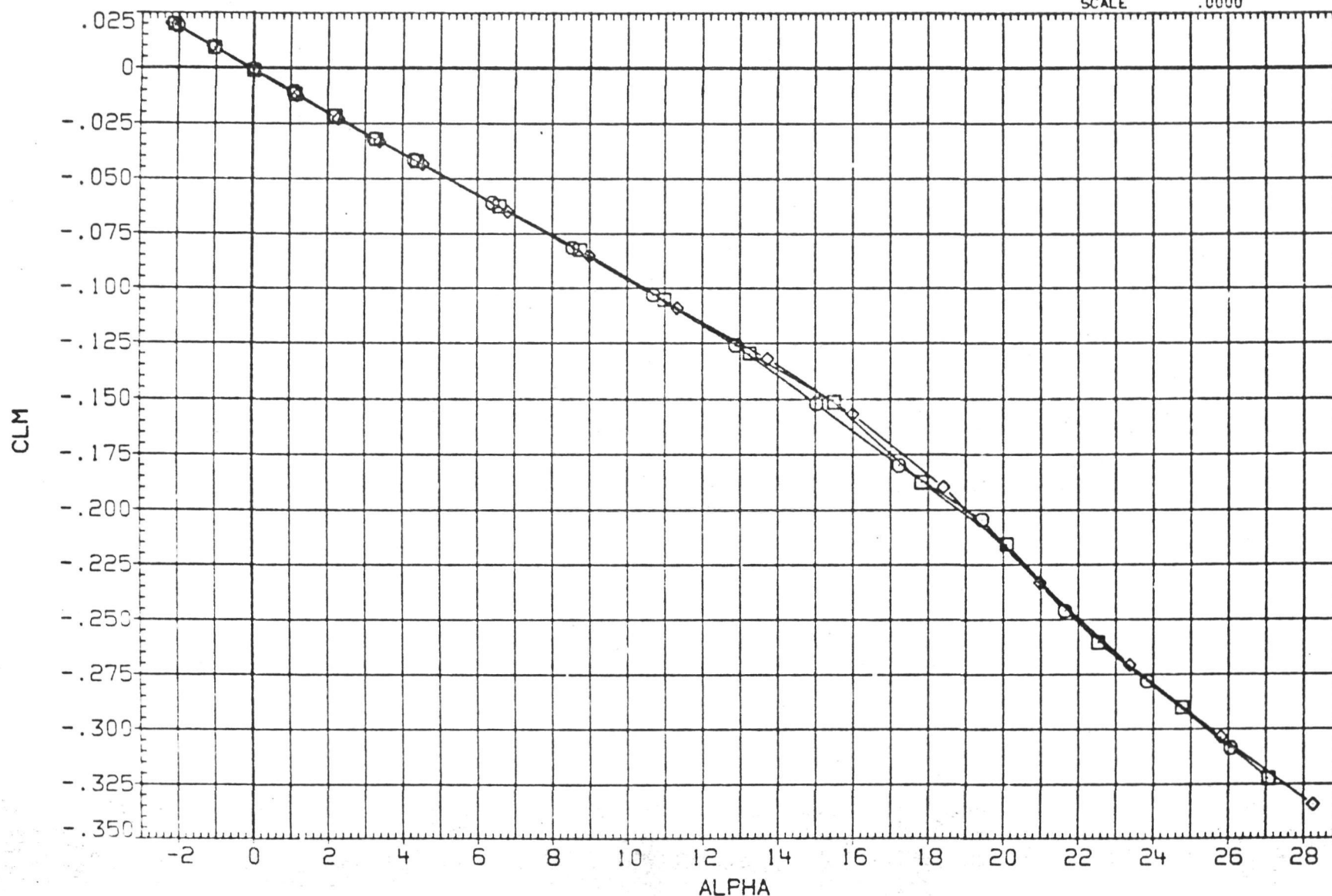


FIGURE 36. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 580

(JNC032)

WING V

60-80-0008

AMES 12-086 (LA65)

SYMBOL

RN/M

PARAMETRIC VALUES

REFERENCE INFORMATION

○
□
◇

13.065
19.479
26.153

T/C
FILSWP
BETA
GRITNO

.080
90.000
.000
120.000

LESWP
TESWP
MACH

60.000
.000
.300

SREF .0675 SQ. M.
LREF .3284 METERS
BREF .3331 METERS
XMRP .3150 M. XB
YMRP .0000 M. YB
ZMRP .0000 M. ZB
SCALE .0000

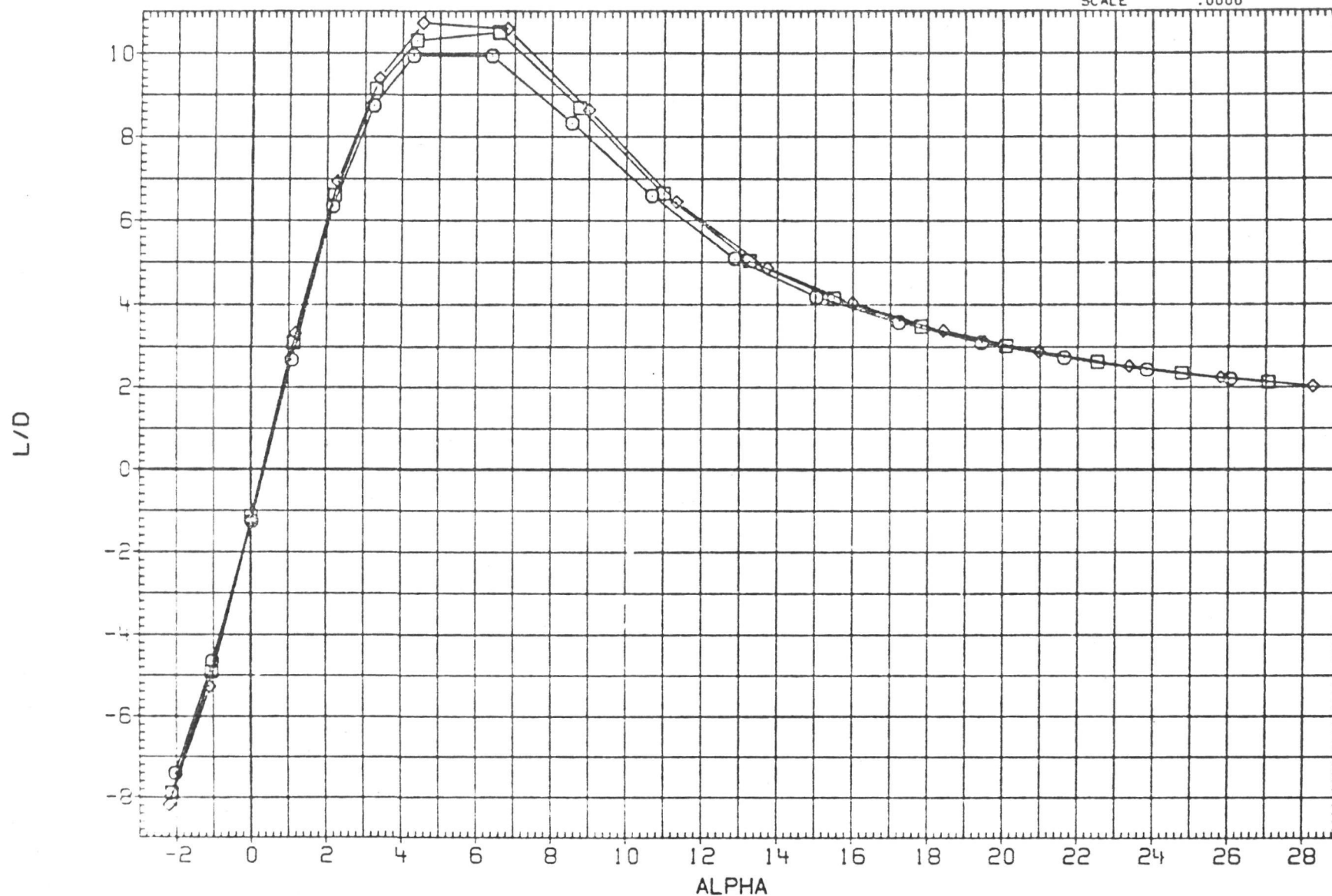


FIGURE 36. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 580

C3

(JNC033) WING V 60-75-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 13.035 LESWP 60.000
 □ 19.571 FILSWP 75.000
 ◇ 26.248 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0584 SQ. M.
 LREF .2587 METERS
 BREF .3331 METERS
 XMRP .2344 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

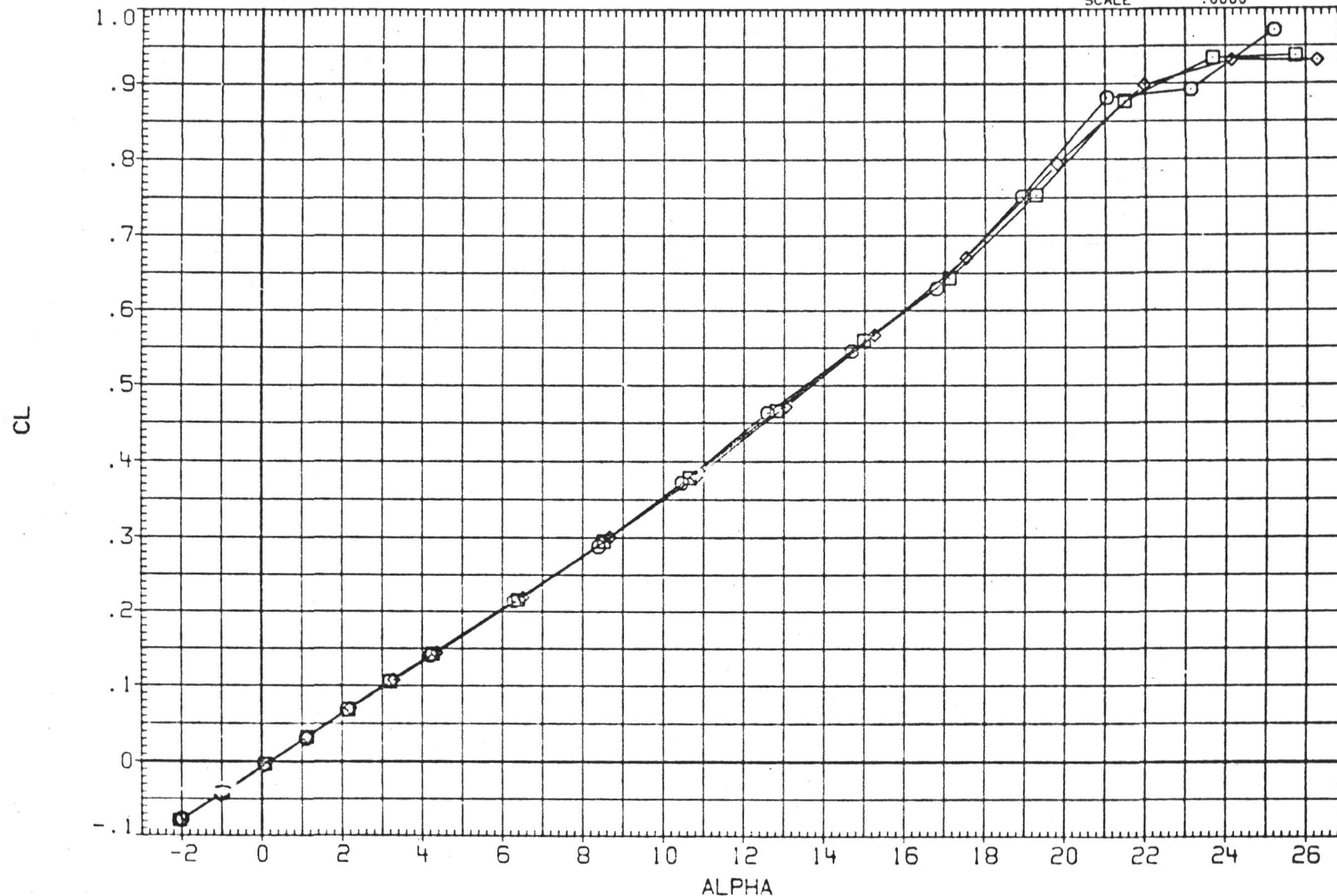


FIGURE 37. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 575

(JNC033) WING V 60-75-0008 AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES	LESWP	60.000
○	13.035	FILSWP	.080	75.000	.000
□	19.571	BETA	.000	MACH	.300
◇	26.248	GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0584	SQ. M.
LREF	.2587	METERS
BREF	.3331	METERS
XMRP	.2344	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

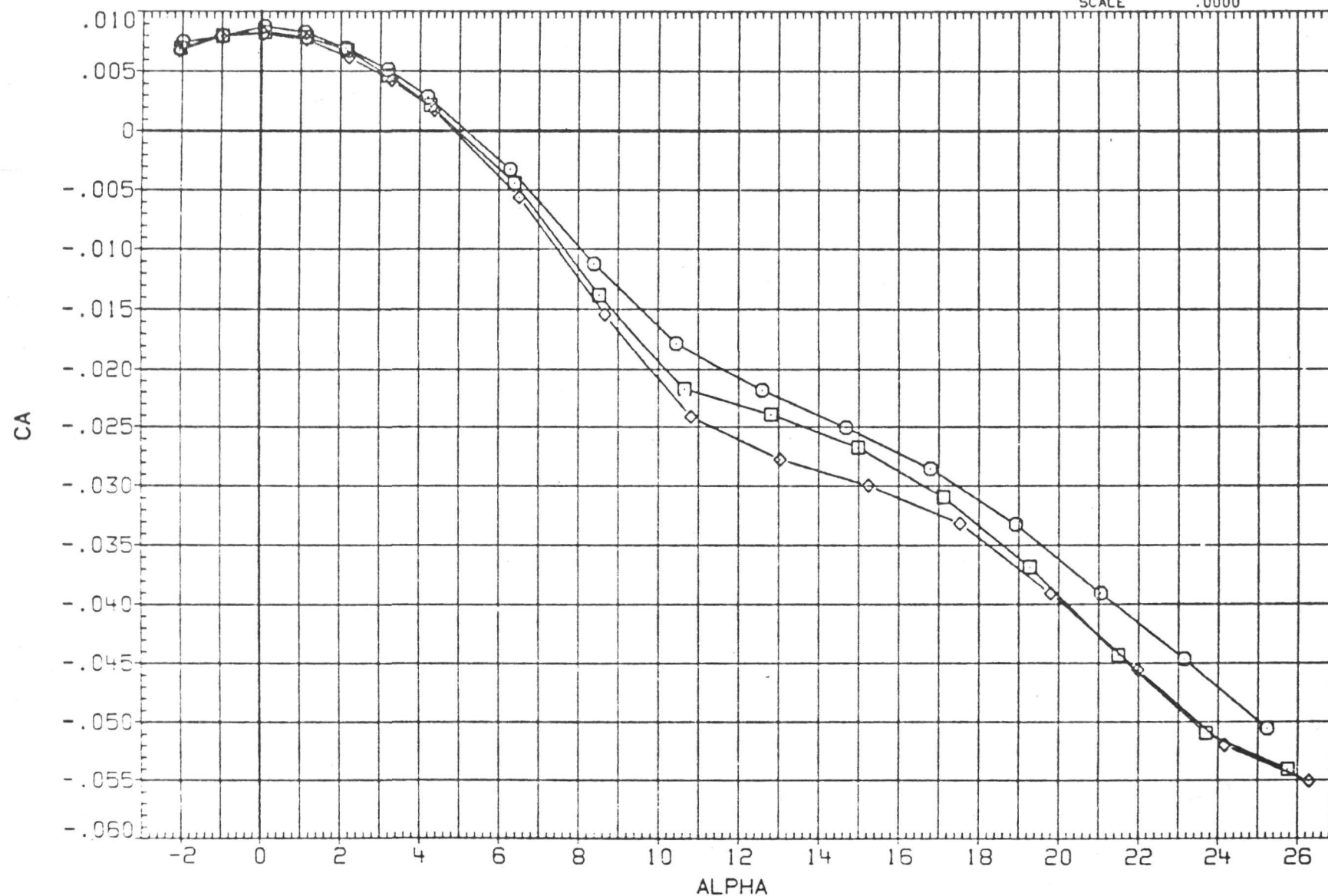


FIGURE 37. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 575

(JNC033) WING V 60-75-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 13.035 FILSWP .080 LESWP 60.000
 □ 19.571 TESWP .000
 ◇ 26.248 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0584 SQ. M.
 LREF .2587 METERS
 BREF .3331 METERS
 XMRP .2344 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

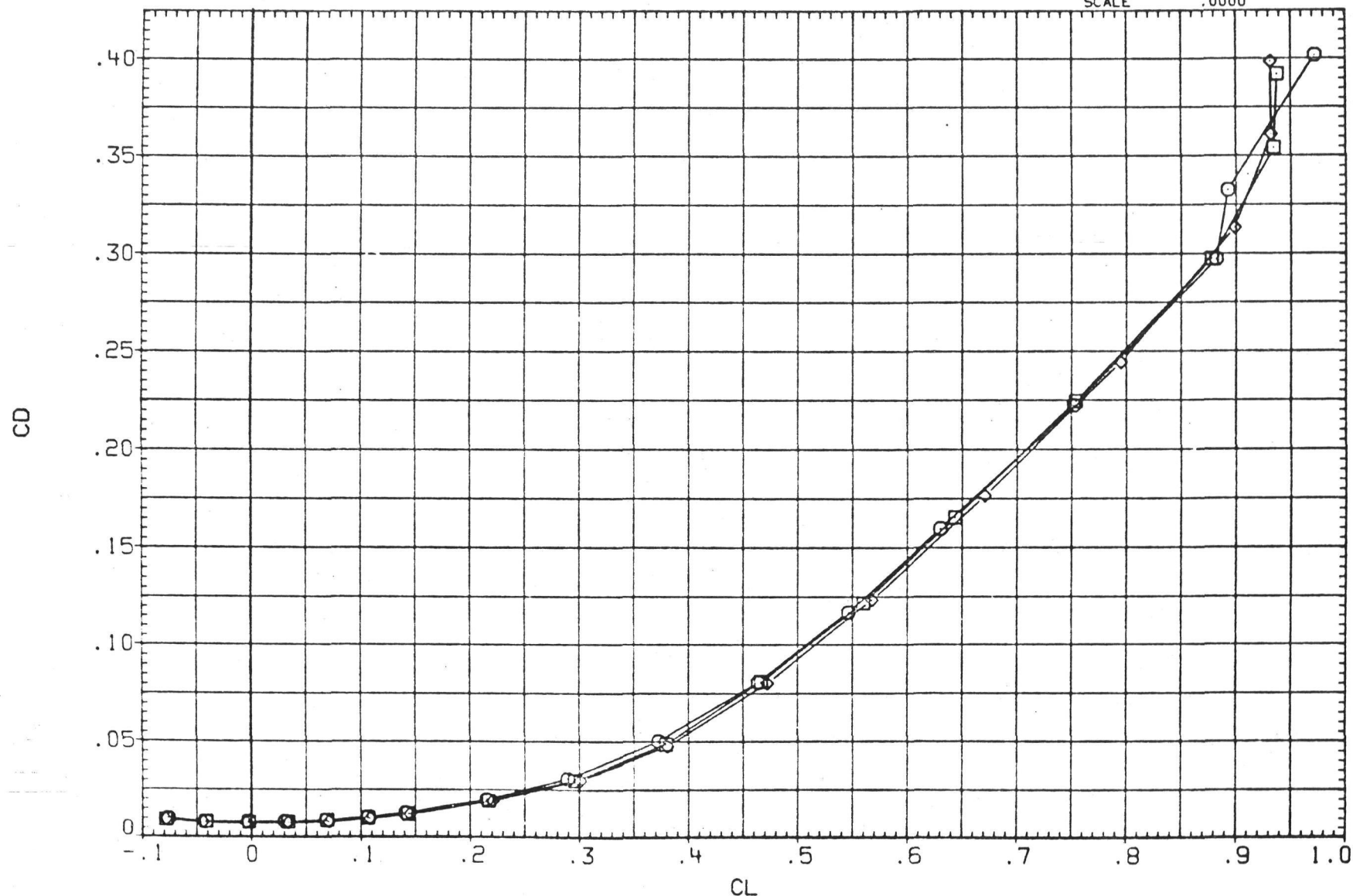


FIGURE 37. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 575

SYMBOL

RN/M

PARAMETRIC VALUES

REFERENCE INFORMATION

○
□
◇

13.035
19.571
26.248

T/C
FILSWP
BETA
GRITNO

.080
75.000
.000
120.000

LESWP
TESWP
MACH

60.000
.000
.300

SREF .0584 SQ. M.
LREF .2587 METERS
BREF .3331 METERS
XMRP .2344 H. XB
YMRP .0000 H. YB
ZMRP .0000 H. ZB
SCALE .0000

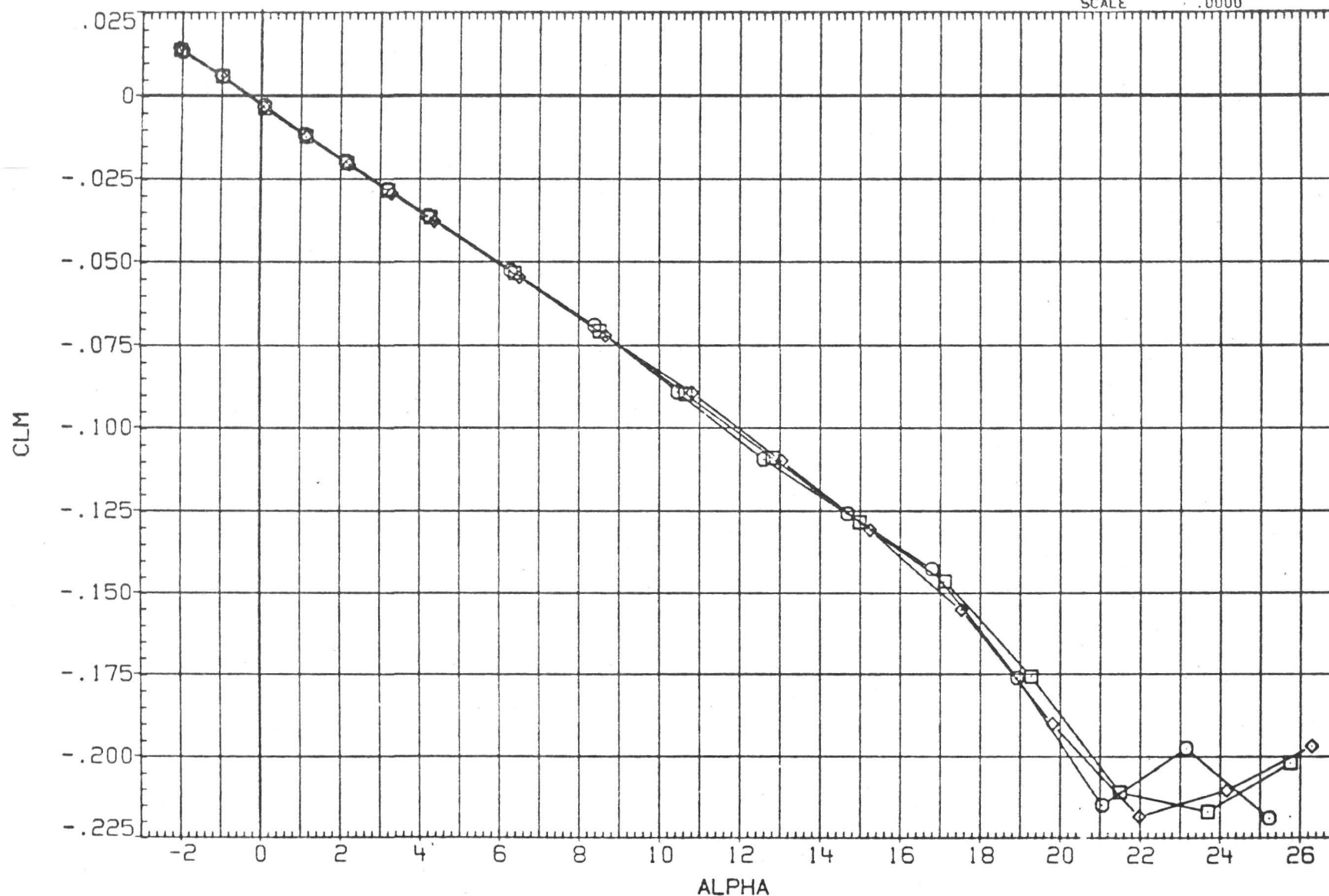


FIGURE 37. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 575

(JNC033) WING V 60-75-0008

AMES 12-086 (LA65)

SYMBOL

RN/M

PARAMETRIC VALUES

○

13.035

T/C

.080

LESWP

60.000

□

19.571

FILSWP

75.000

TESWP

.000

◇

26.248

BETA

.000

MACH

.300

GRITNO

120.000

REFERENCE INFORMATION

SREF	.0584	SQ. M.
LREF	.2587	METERS
BREF	.3331	METERS
XMRP	.2344	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

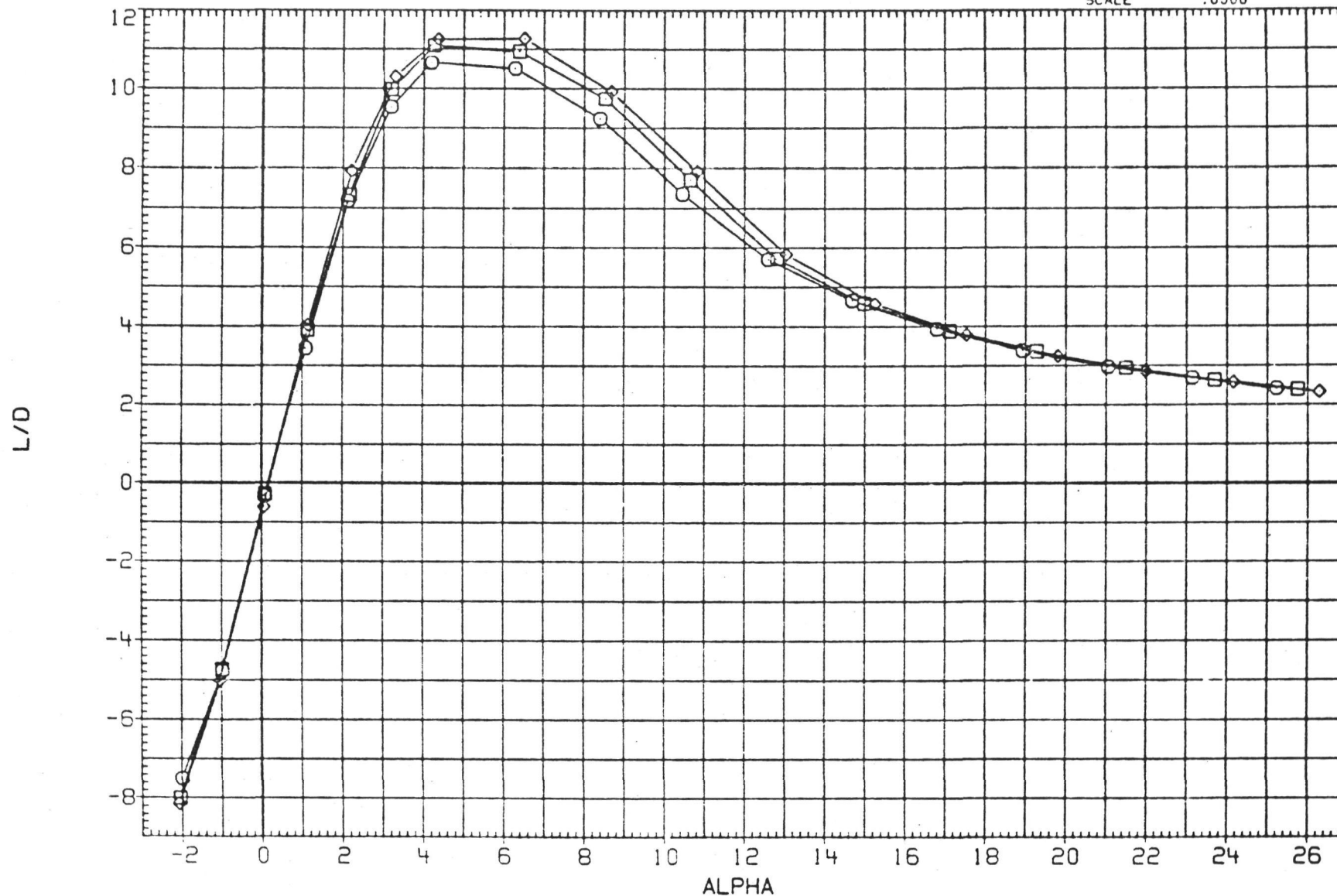


FIGURE 37. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 575

(JNC034)

WING V

60-70-0008

AMES 12-086 (LA65)

SYMBOL

RN/M

PARAMETRIC VALUES

REFERENCE INFORMATION

○

19.604

T/C

.080

LESWP

50.000

SREF

.0538

SQ. M.

□

26.120

FILSWP

70.000

TESWP

.000

LREF

.2258

METERS

BETA

.000

MACH

.300

BREF

.3331

METERS

GRITNO

120.000

XMRP

.1916

M. XB

YMRP

.0000

M. YB

ZMRP

.0000

M. ZB

SCALE

.0000

CL

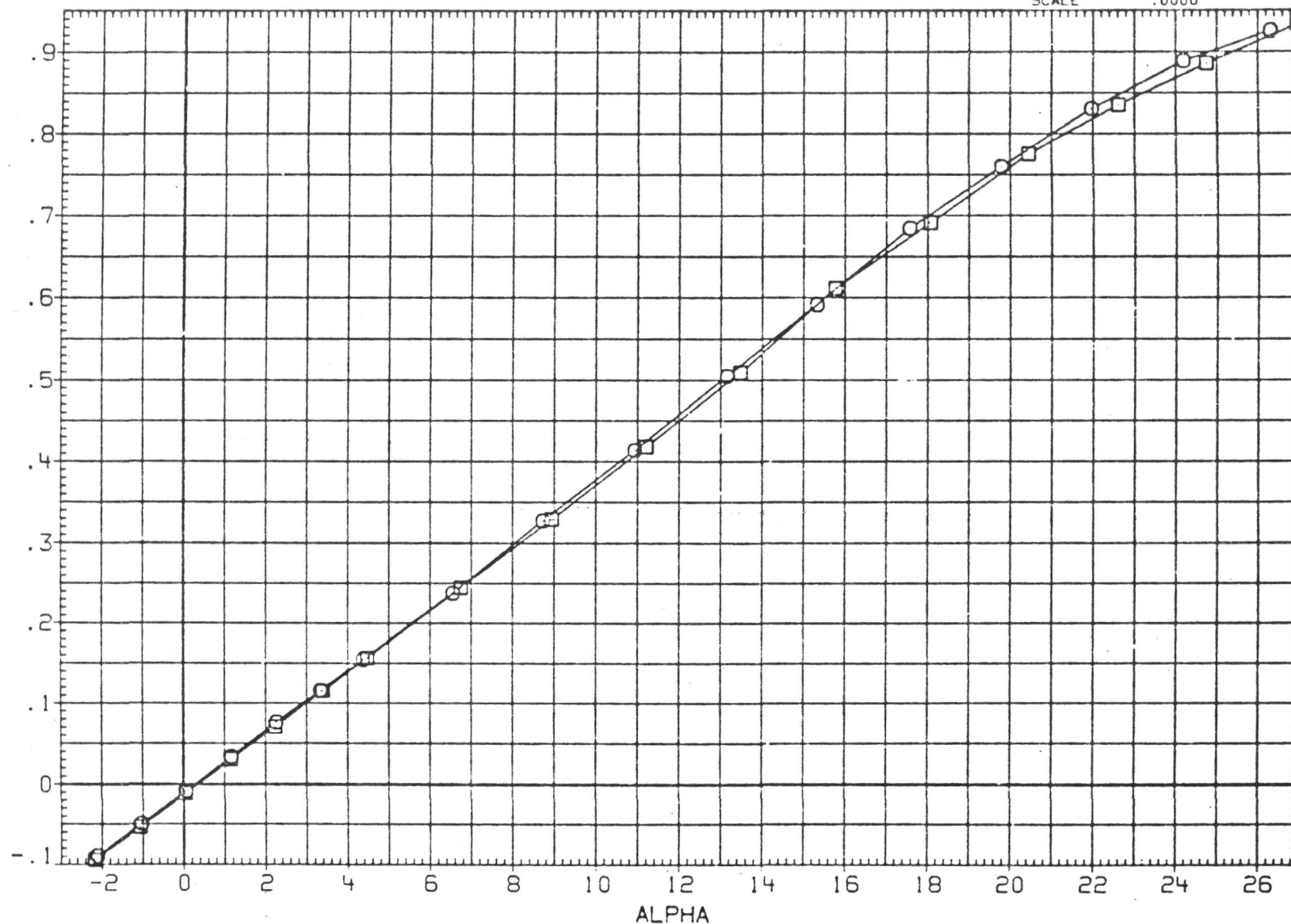


FIGURE 38. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 570

(JNC034) WING V 60-70-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	19.604	T/C	.080	LESWP	60.000
□	26.120	FILSWP	70.000	TESWP	.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION		
SREF	.0538	SO. M.
LREF	.2258	METERS
BREF	.3331	METERS
XMRP	.1916	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

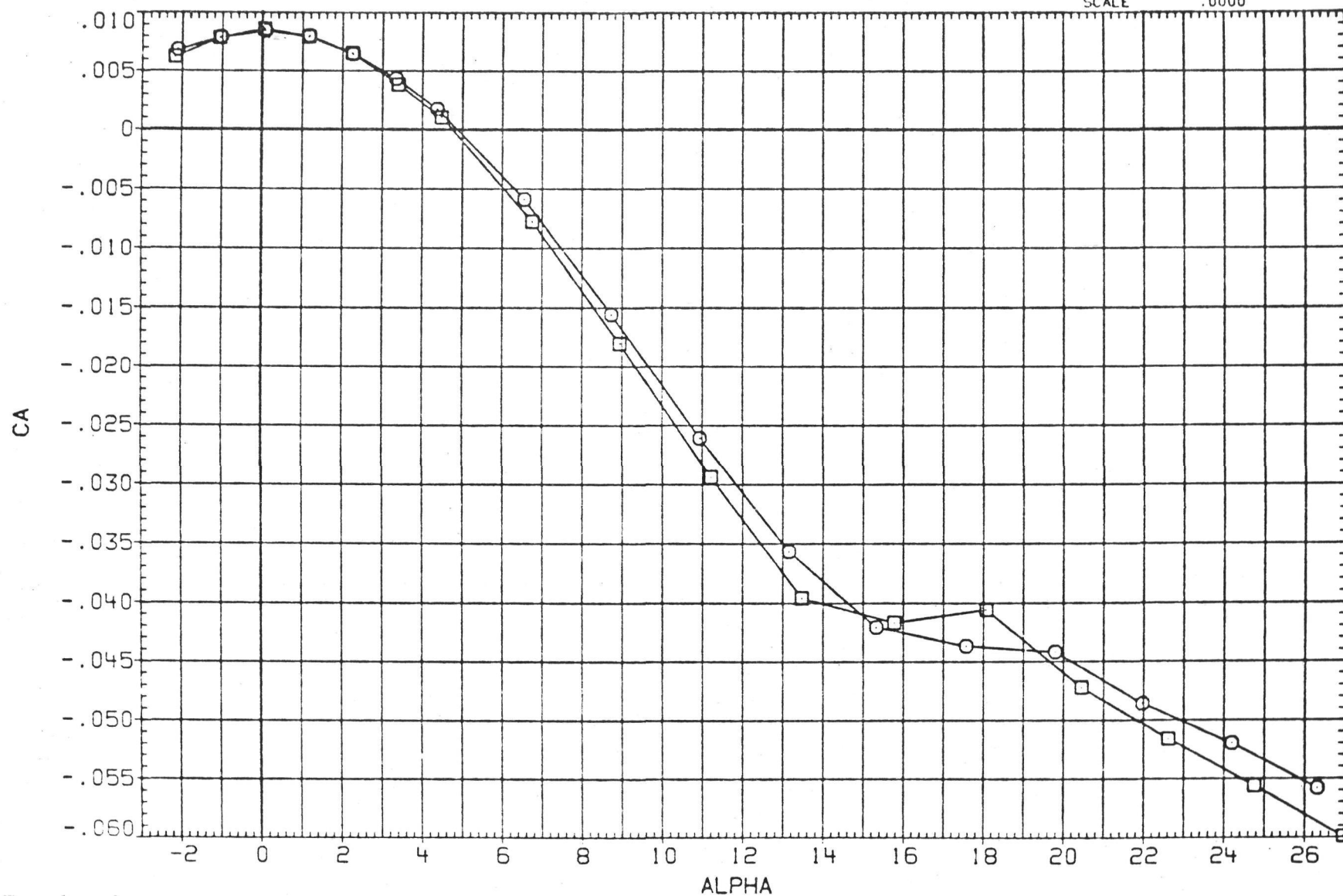


FIGURE 38. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 570

SYMBOL

RN/M

PARAMETRIC VALUES

REFERENCE INFORMATION

○

19.604

T/C

.080

LESWP

60.000

SREF

.0538

SQ. M.

□

26.120

FILSWP

70.000

TESWP

.000

LREF

.2258

METERS

BREF

.3331

METERS

XMRP

.1916

M. XB

YMRP

.0000

M. YB

ZMRP

.0000

M. ZB

SCALE

.0000

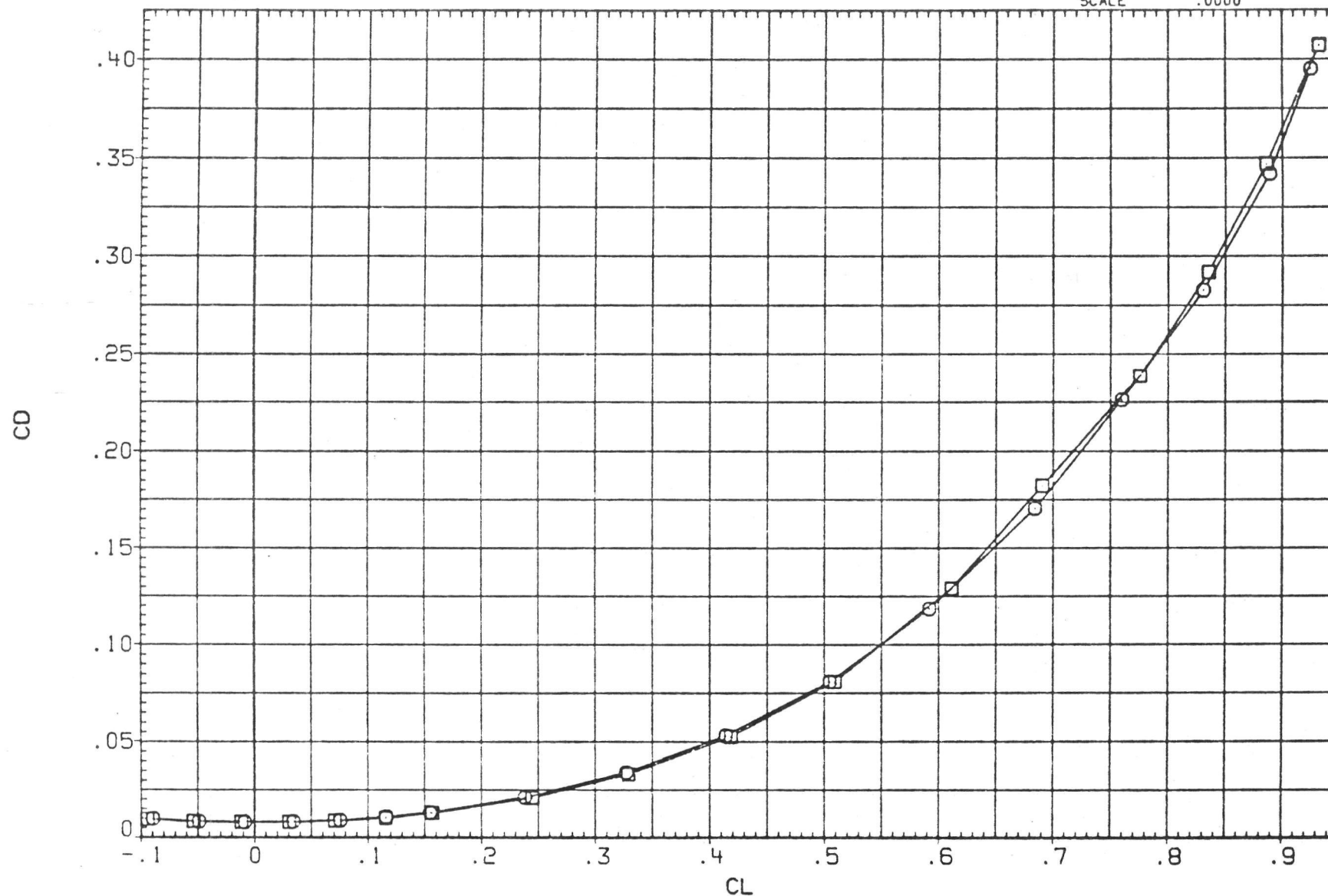


FIGURE 38. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 570

(JNC034) WING V 60-70-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES		
○	19.604	FILSWP	.080	LESWP	60.000
□	26.120	BETA	70.000	TESWP	.000
		GRITNO	.000	MACH	.300
			120.000		

REFERENCE INFORMATION

SREF	.0538	SQ. M.
LREF	.2258	METERS
BREF	.3331	METERS
XMRP	.1916	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

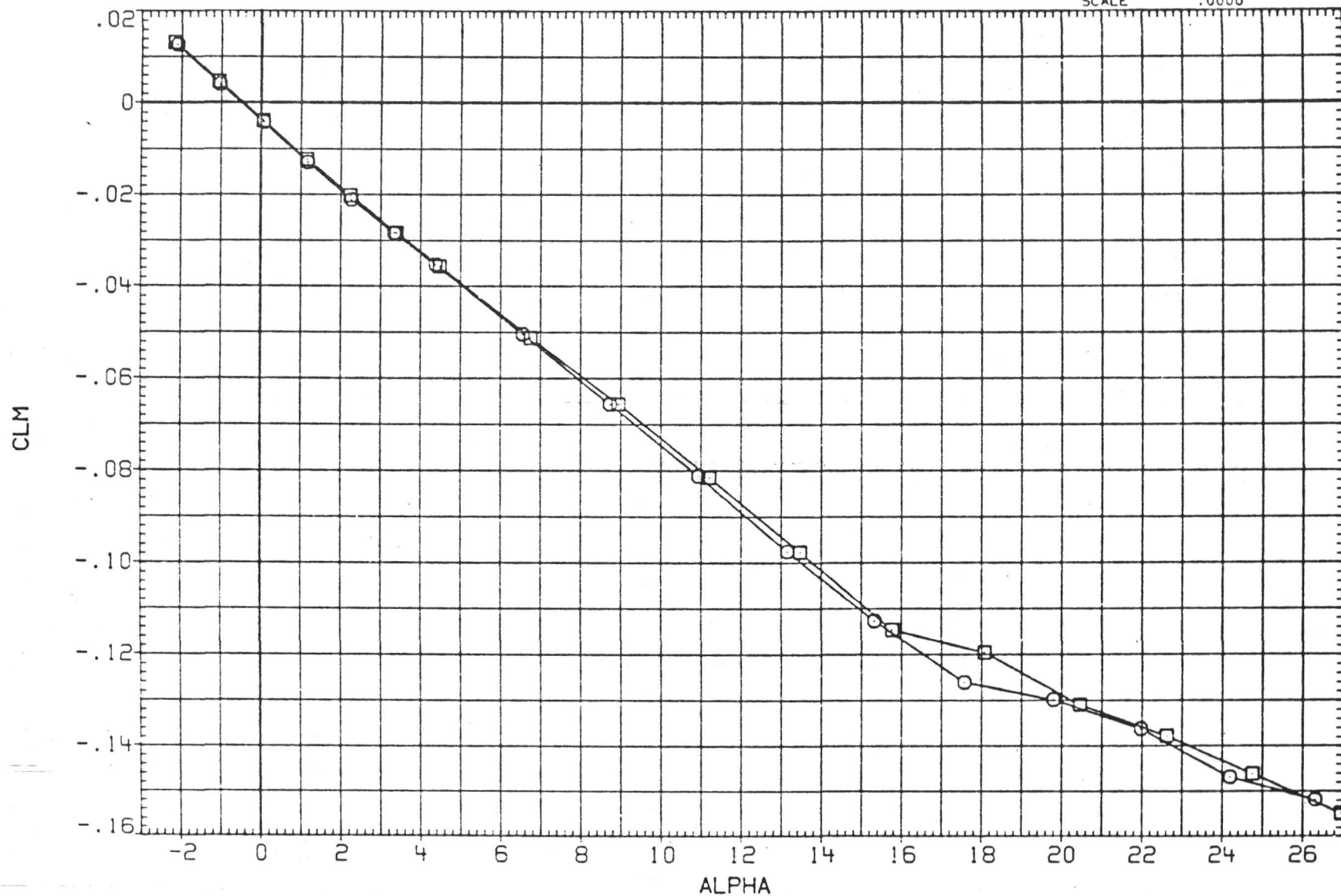


FIGURE 38. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 570

SYMBOL		RN/M		PARAMETRIC VALUES	
○	19.604	T/C	.060	LESWP	60.000
□	26.120	FILSWP	70.000	TESWP	.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION		
SREF	.0538	SQ. M.
LREF	.2258	METERS
BREF	.3331	METERS
XMRP	.1916	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

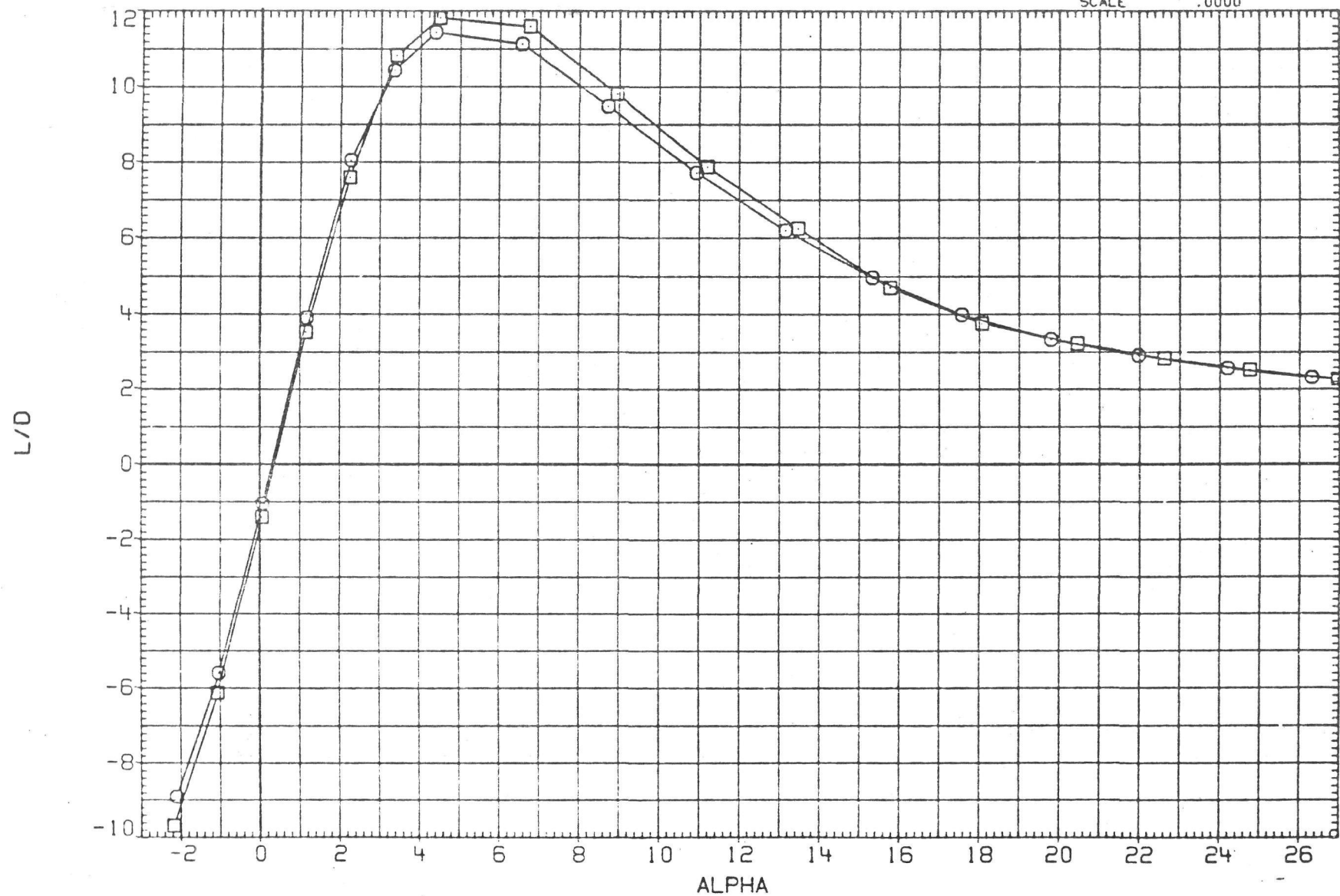


FIGURE 38. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 570

(JNC035) WING V 60-65-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES
○	19.558	T/C .080 LESWP 60.000
□	26.297	FILSWP 65.000 TESWP .000
		BETA .000 MACH .300
		GRITNO 120.000

REFERENCE INFORMATION		
SREF	.0509	SQ. M.
LREF	.2067	METERS
BREF	.3331	METERS
XMRP	.1645	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

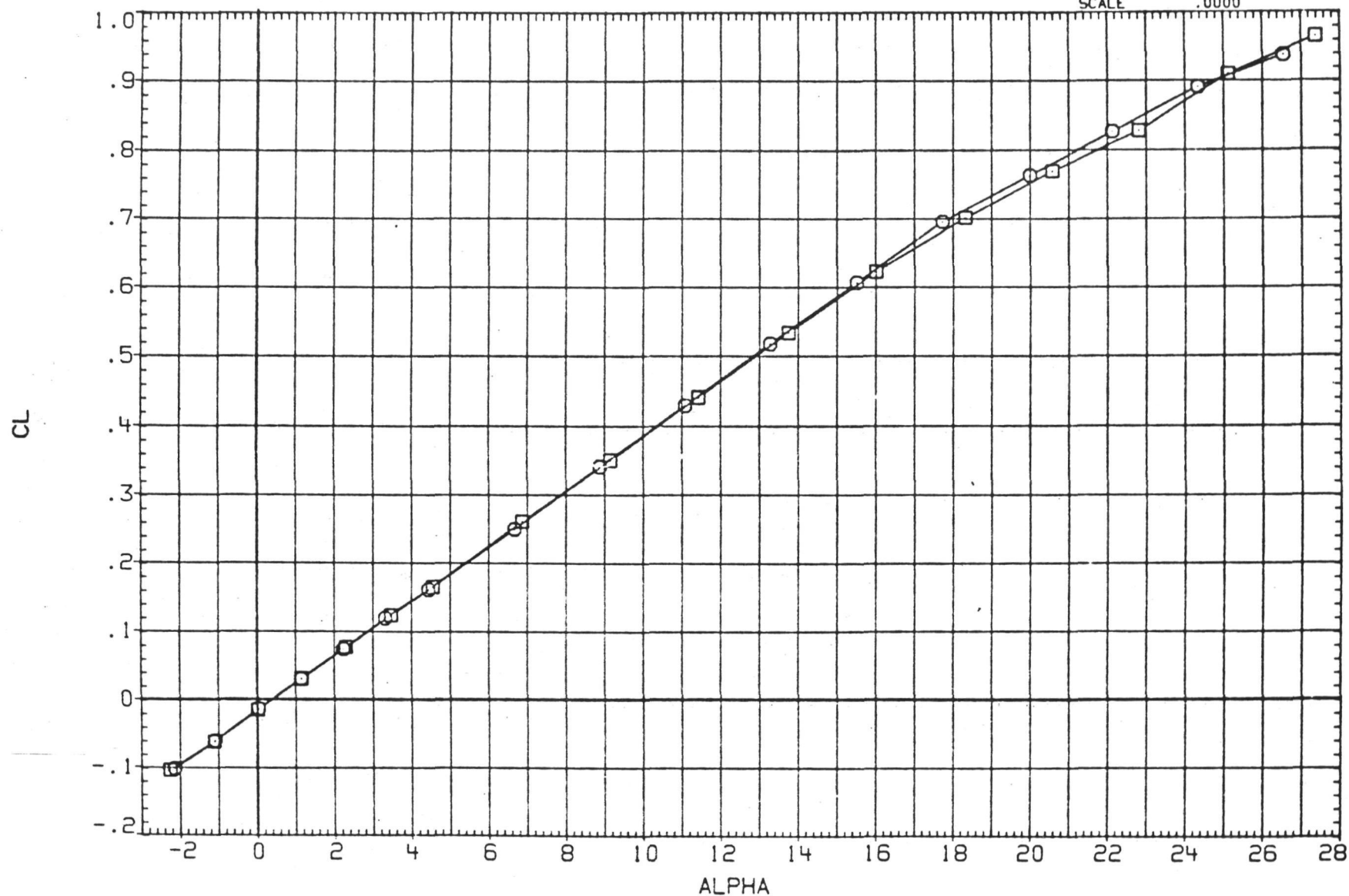


FIGURE 39. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 565

(JNC035) WING V 60-65-0008
 SYMBOL RN/M PARAMETRIC VALUES
 ○ 19.558 T/C .080 LESH 60.000
 □ 26.297 FILSWP 65.000 TESWP .000
 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0509 SQ. M.
 LREF .2067 METERS
 BREF .3331 METERS
 XMRP .1645 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

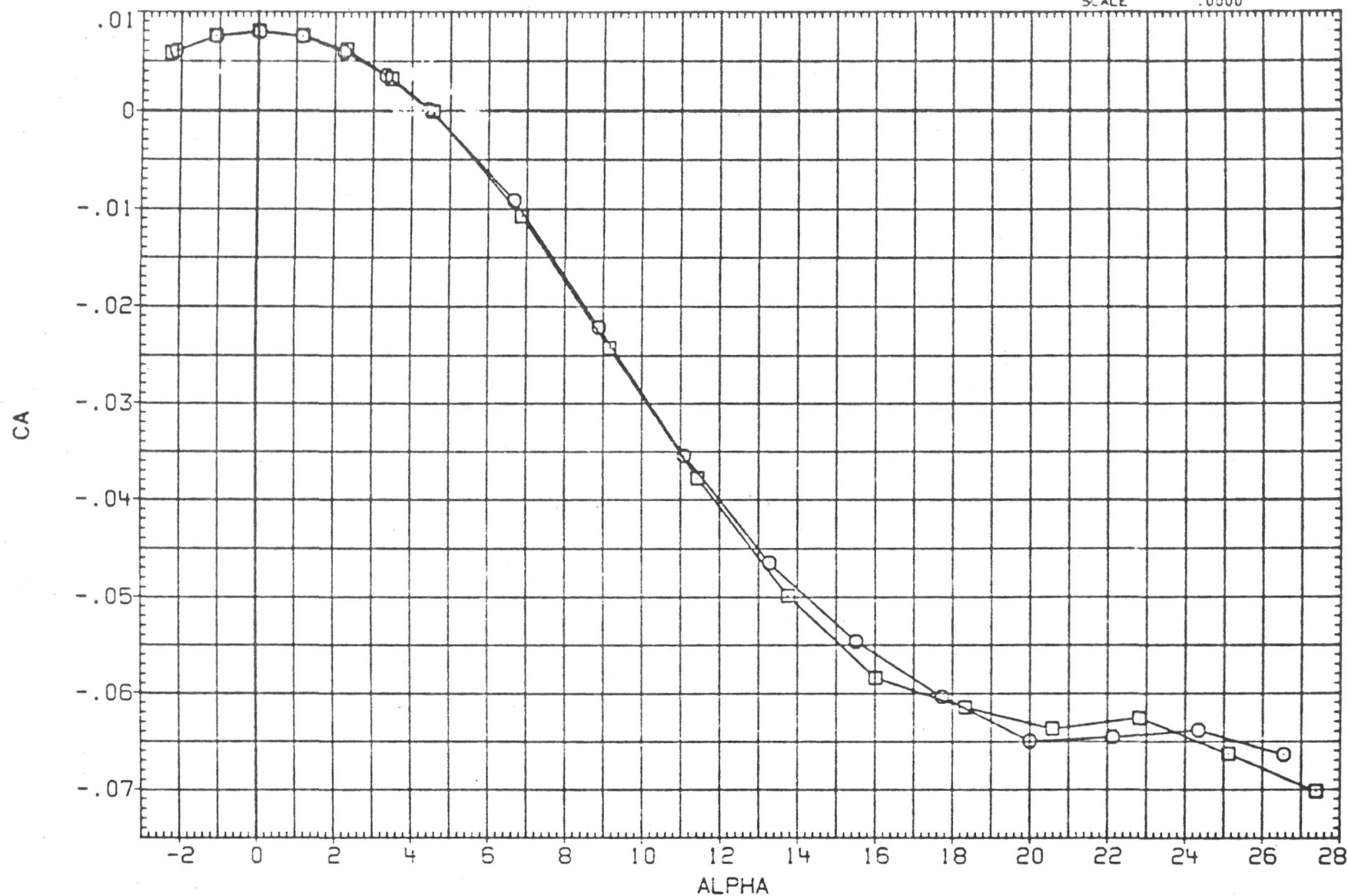


FIGURE 39. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 565

(JNC035) WING V 60-65-0008

AMES 12-086 (LA65)

SYMBOL RN/M

PARAMETRIC VALUES

○	19.558	T/C	.080	LESHP	60.000
□	26.297	FILSHP	65.000	TESHP	.000
		BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0509	SO. M.
LREF	.2067	METERS
BREF	.3331	METERS
XMRP	.1645	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

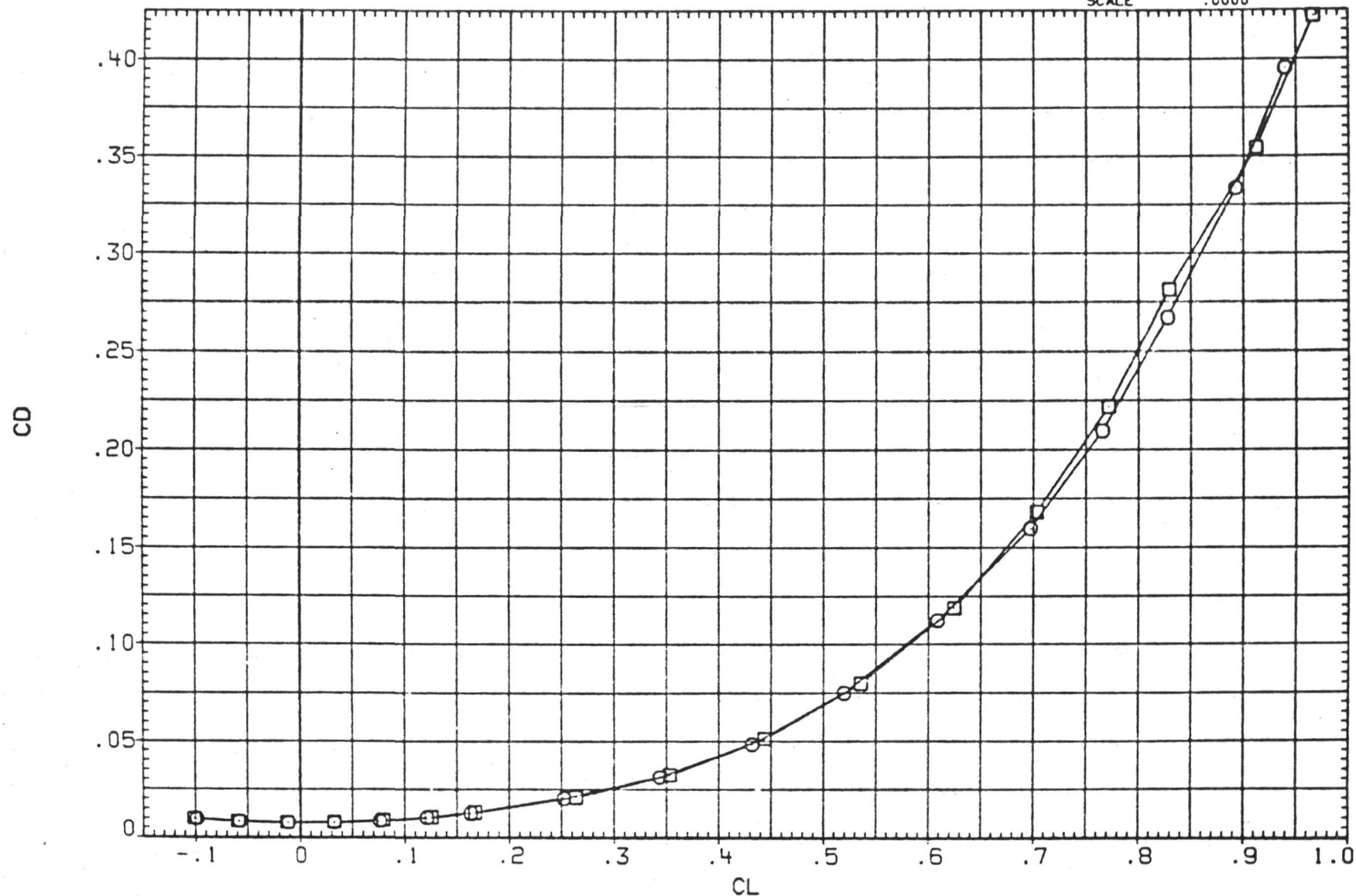


FIGURE 39. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 565

(JNC035) WING V 60-65-0008
 SYMBOL RN/M PARAMETRIC VALUES
 O 19.558 T/C .080 LESHP 60.000
 □ 26.297 FILSWP 65.000 TESHP .000
 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0509 SQ. M.
 LREF .2067 METERS
 BREF .3331 METERS
 XMRP .1645 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

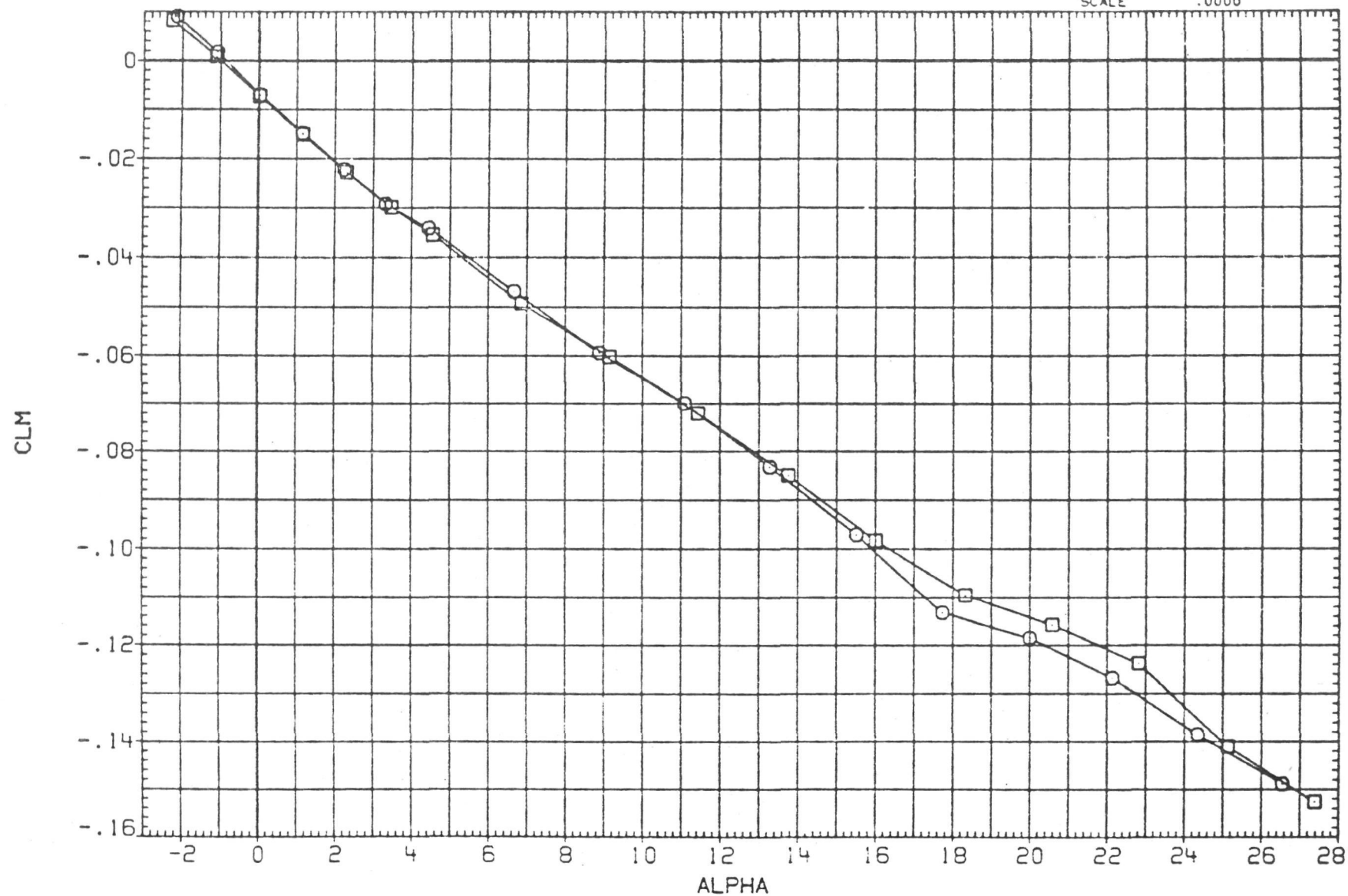


FIGURE 39. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 565

(JNC035) WING V 60-65-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 O 19.558 LESWP 60.000
 □ 26.297 FILSWP 65.000
 BETA TESWP .000
 GRITNC 120.000 MACH .300

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0509 SQ. M.
 LREF .2067 METERS
 BREF .3331 METERS
 XMRP .1645 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

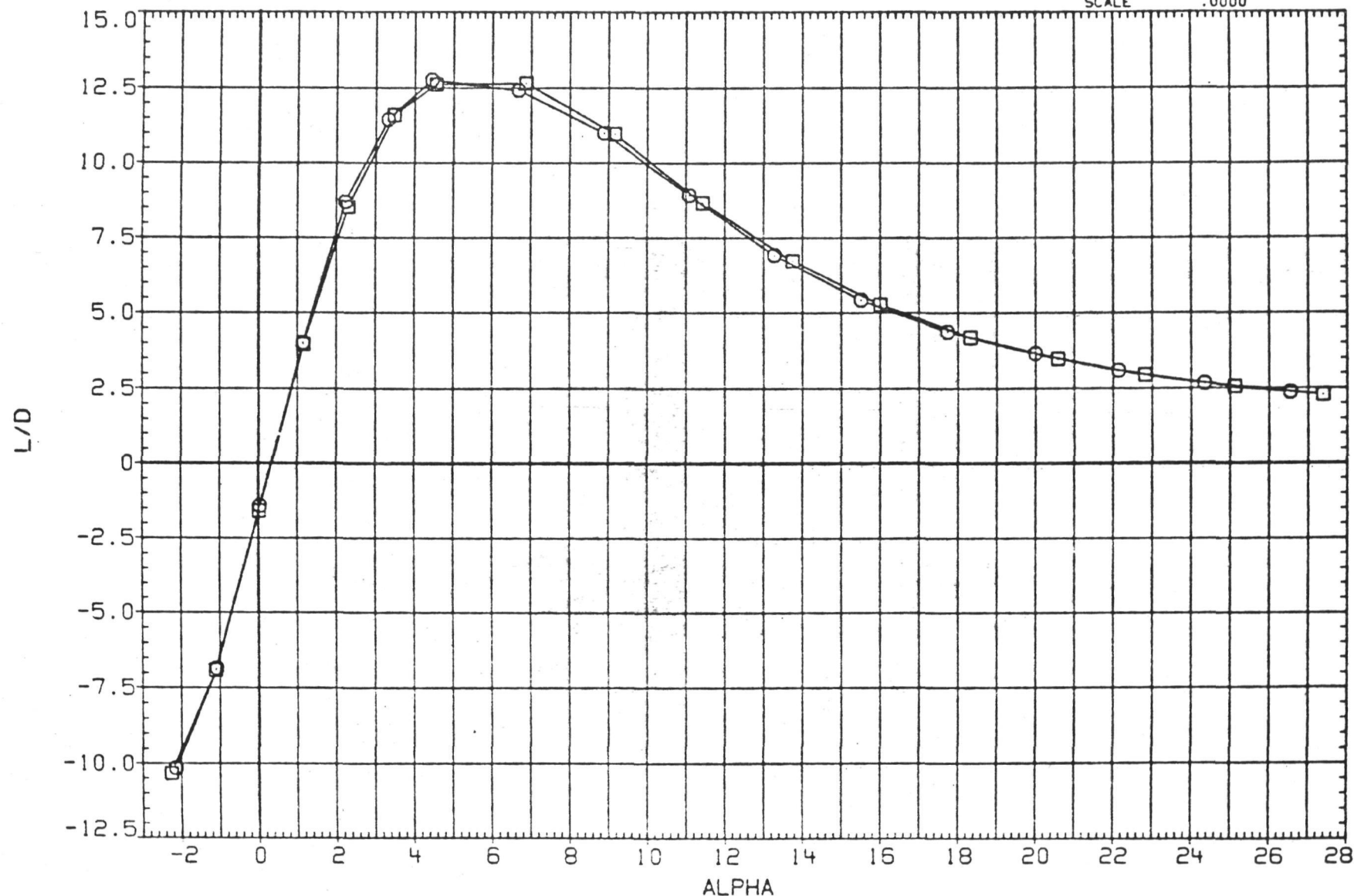


FIGURE 39. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 565

(JNC046)

WING I

25-80-0008

AMES 12-086 (LA65)

SYMBOL RN/M

PARAMETRIC VALUES

REFERENCE INFORMATION

○	6.427	T/C	.080	LESHP	25.000
□	13.078	FILSWP	80.000	TESHP	25.000
◇	19.673	BETA	.000	MACH	.300
△	26.291	GRITNO	.000		

SREF	.0734	SQ. M.
LREF	.3220	METERS
BREF	.3331	METERS
XMRP	.3152	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

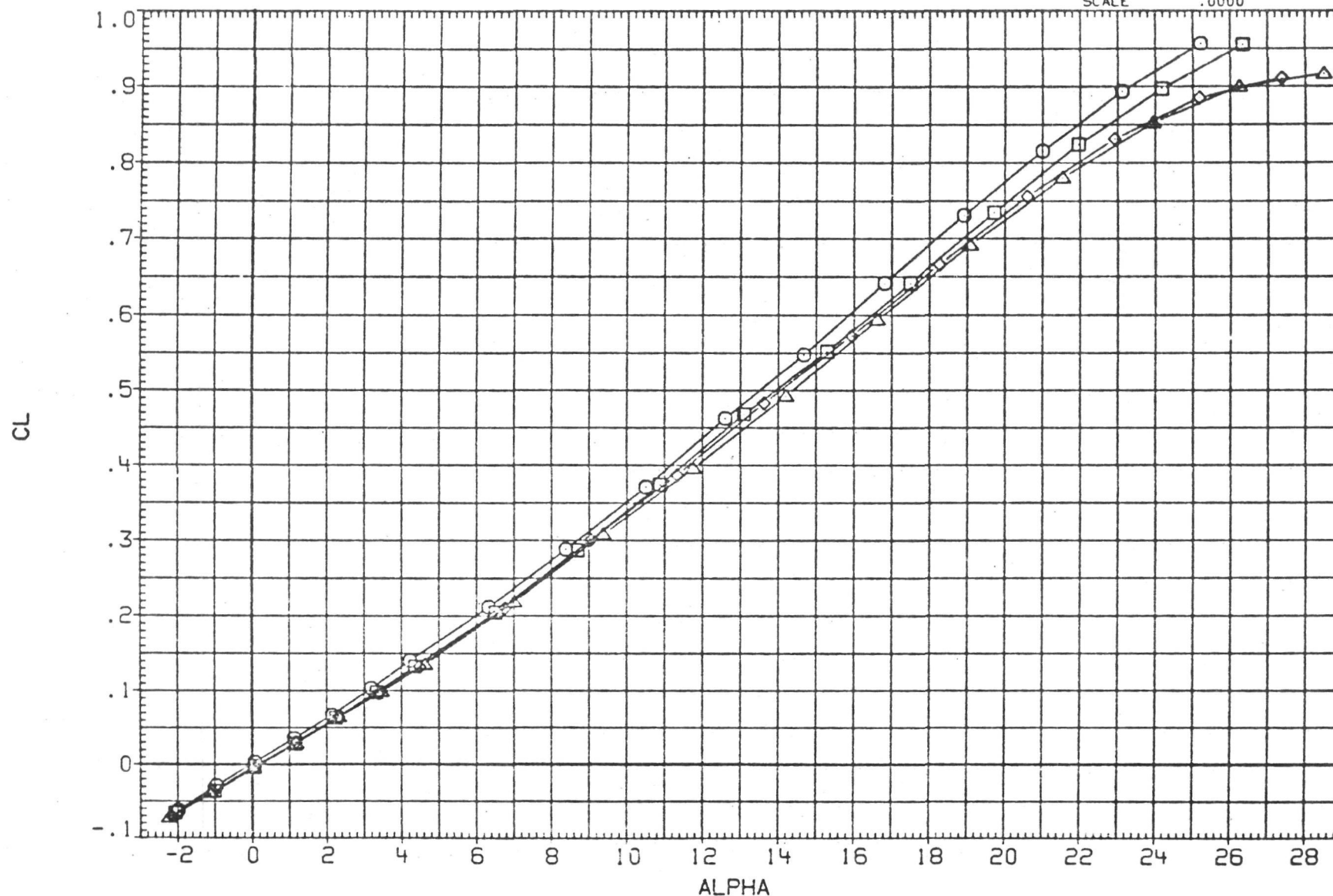


FIGURE 40. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 180 (FREE TRANS)

(JNC046) WING I 25-80-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES	
○	6.427	T/C	.080
□	13.078	FILSWP	80.000
◇	19.673	BETA	.000
△	26.291	GRITNO	.000
		LESWP	25.000
		TESWP	25.000
		MACH	.300

REFERENCE INFORMATION		
SREF	.0734	SQ. M.
LREF	.3220	METERS
BREF	.3331	METERS
XMRP	.3152	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	0000	

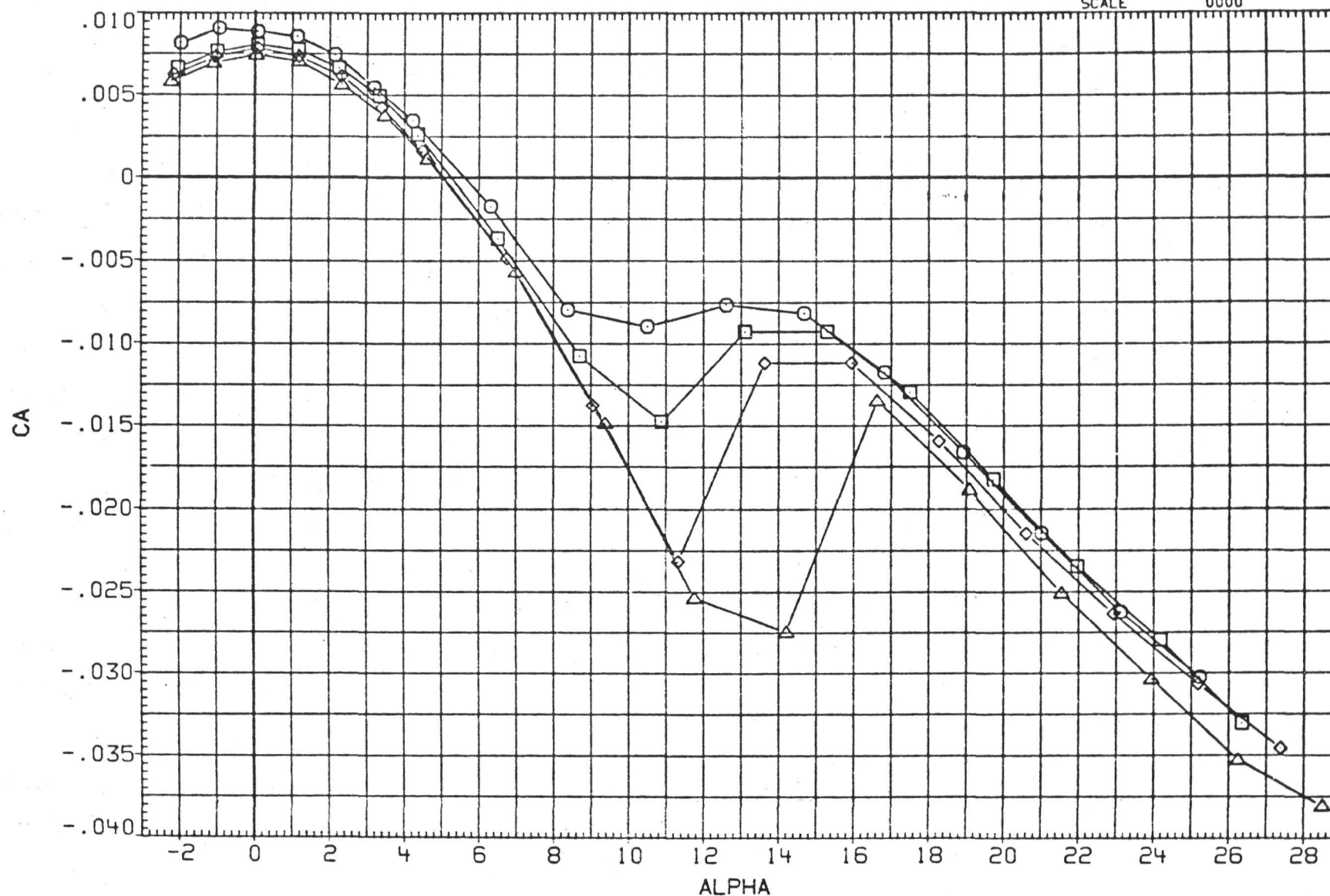


FIGURE 40. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 180 (FREE TRANS)

(JNC046) WING I 25-80-0008 AMES 12-086 (LA65)

SYMBOL		PARAMETRIC VALUES			
○	6.427	T/C	.080	LESWP	25.000
□	13.078	FILSWP	80.000	TESWP	25.000
◇	19.673	BETA	.000	MACH	.300
△	26.291	GRITNO	.000		

REFERENCE INFORMATION

SREF	.0734	SQ. M.
LREF	.3220	METERS
BREF	.3331	METERS
XMRP	.3152	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

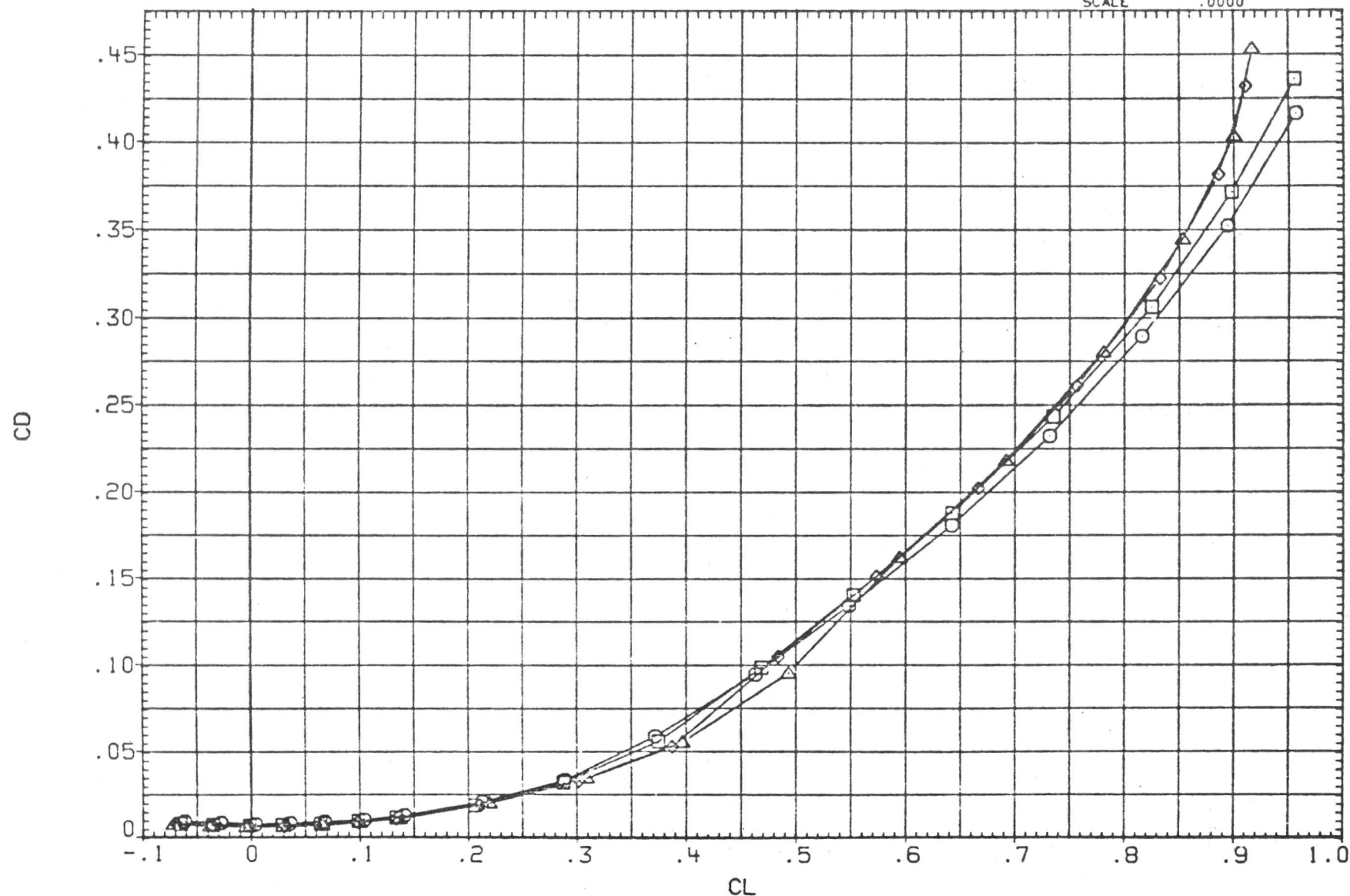


FIGURE 40. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 180 (FREE TRANS)

(JNC046) WING I 25-80-0008
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 6.427 LESWP 25.000
 □ 13.078 FILSWP 80.000 TESWP 25.000
 ◇ 19.673 BETA .000 MACH .300
 △ 26.291 GRITNO .000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0734 SQ. M.
 LREF .3220 METERS
 BREF .3331 METERS
 XMRP .3152 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000



FIGURE 40. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 180 (FREE TRANS)

(JNC046) WING I 25-80-0008 AMES 12-086 (LA65)

SYMBOL		RN/M	PARAMETRIC VALUES			
○		6.427	T/C	.080	LESHP	25.000
□		13.078	FILSWP	80.000	TESHP	25.000
◇		19.673	BETA	.000	MACH	.300
△		26.291	GRITNO	.000		

REFERENCE INFORMATION

SREF	.0734	SQ. M.
LREF	.3220	METERS
BREF	.3331	METERS
XMRP	.3152	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

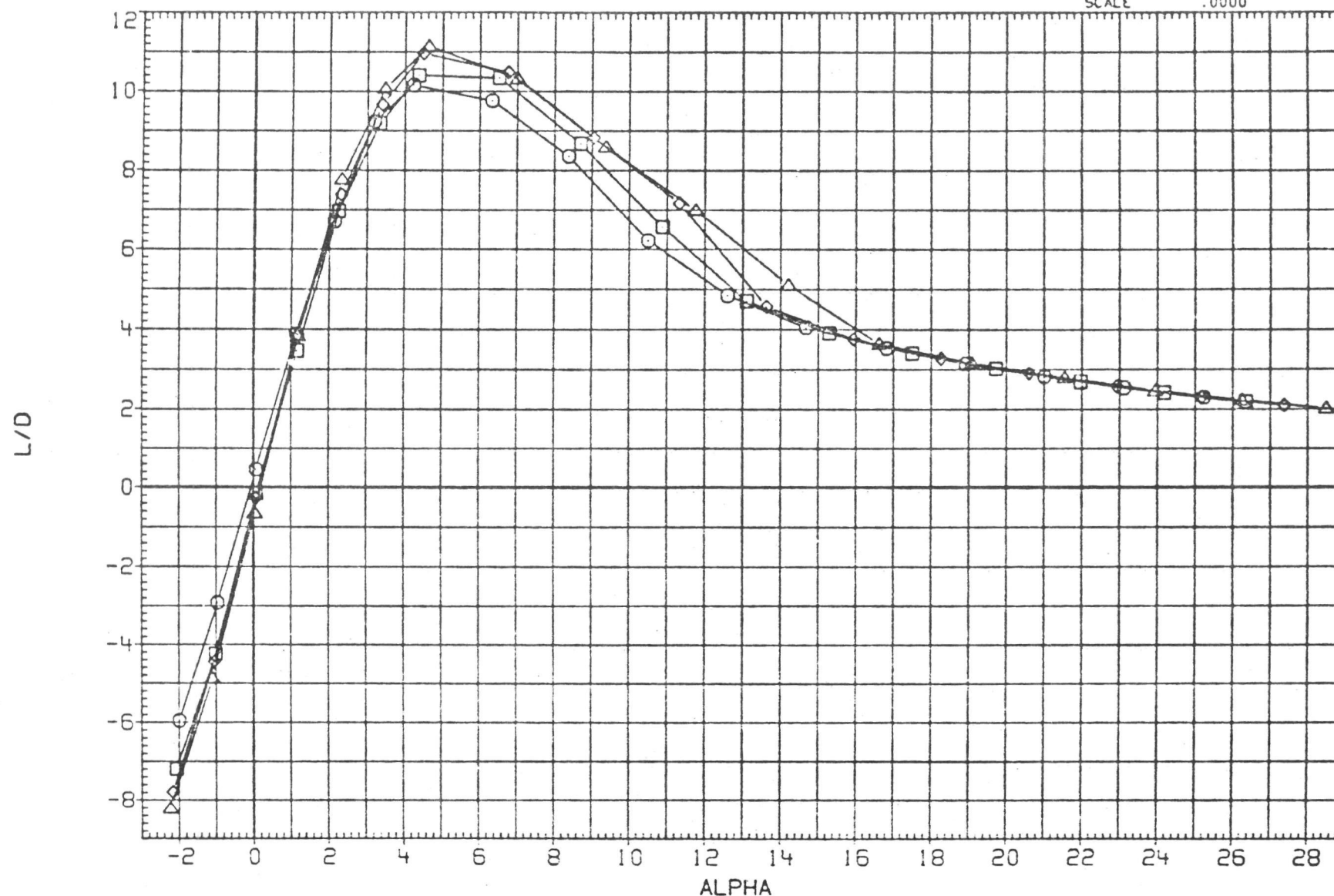


FIGURE 40. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 180 (FREE TRANS)

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(JNC010) ○ WING II 35-35-0008 AMES 12-086 (LA65)
 (JNC039) □ WING II 35-35-WEDGE AMES 12-086 (LA65)

GRITNO LESWP FILSWP
 120.000 35.000 35.000
 120.000 35.000 35.000

REFERENCE INFORMATION
 SREF .0490 SQ. M.
 LREF .1649 METERS
 BREF .3331 METERS
 XMRP .0878 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

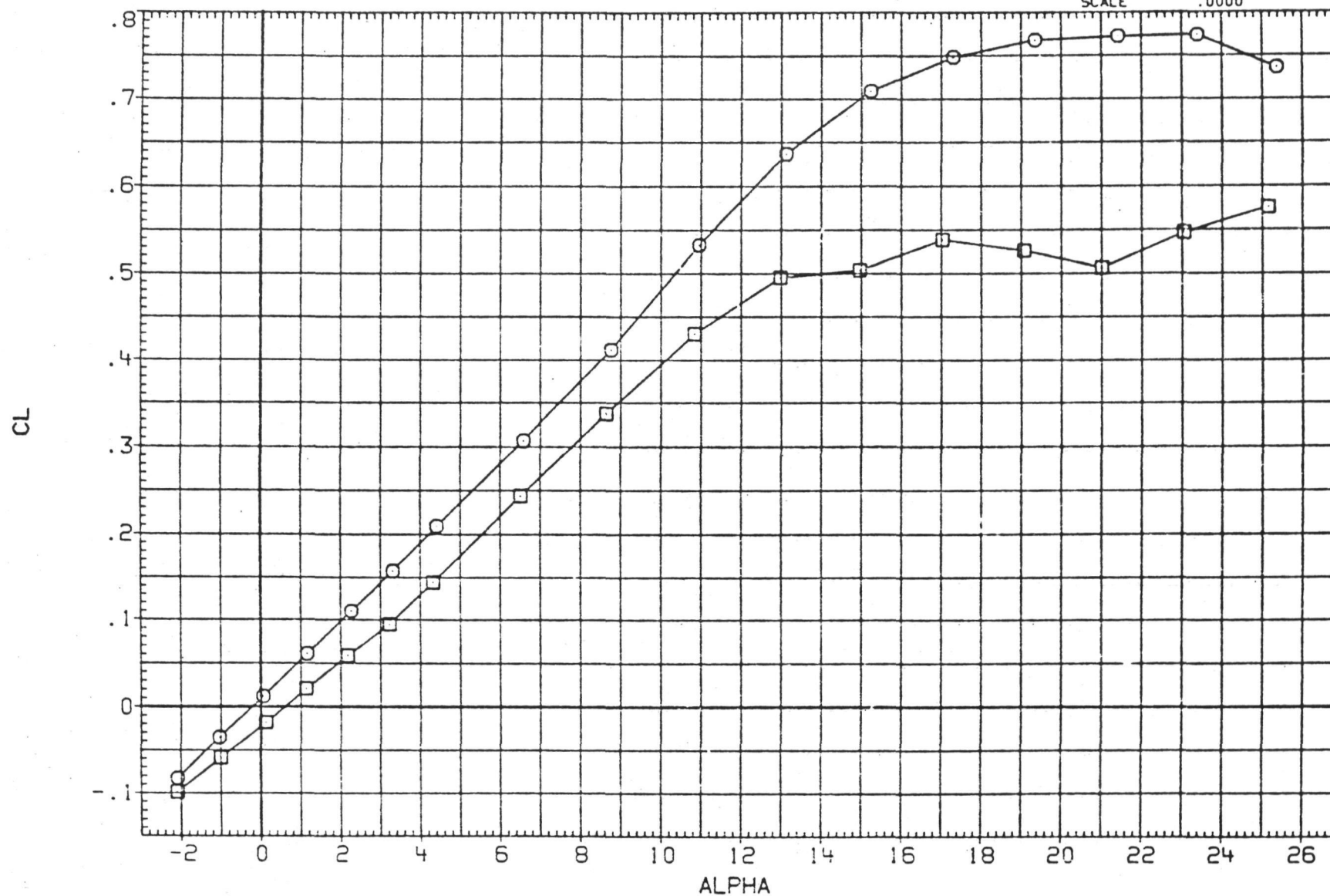


FIGURE 41. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 235 AND 581

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (JNC010) ○ WING II 35-35-0008
 (JNC039) □ WING II 35-35-WEDGE

AMES 12-086 (LA65)
 AMES 12-086 (LA65)

GRITNO
 120.000
 120.000

LESHP
 35.000
 35.000

FILSHP
 35.000
 35.000

REFERENCE INFORMATION
 SREF .0490 SQ. M.
 LREF .1649 METERS
 BREF .3331 METERS
 XMRP .0878 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

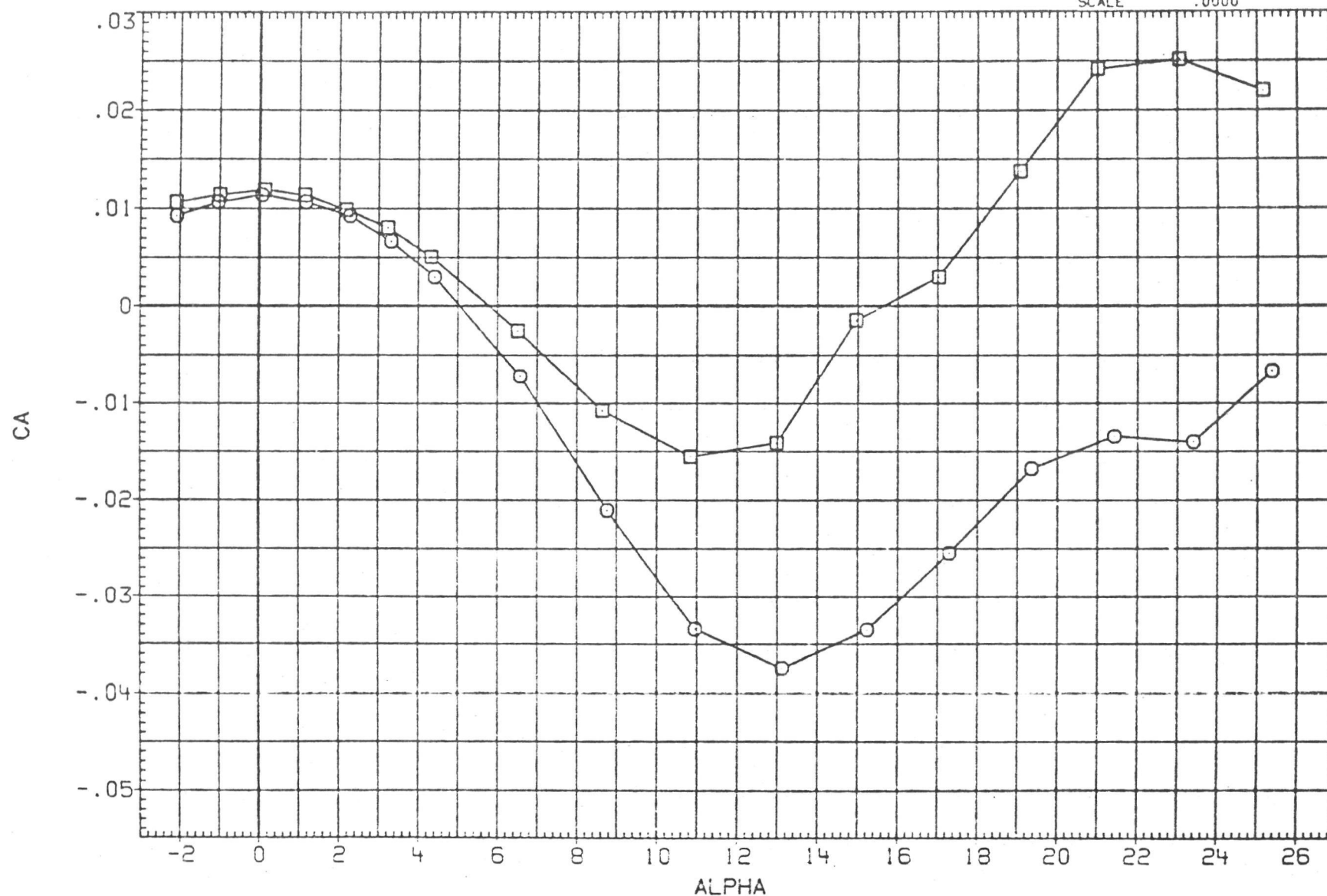


FIGURE 41. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 235 AND 581

(A) RN/M = 13.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(JNC010)	○	WING II 35-35-0008	AMES 12-086 (LA65)
(JNC039)	□	WING II 35-35-WEDGE	AMES 12-086 (LA65)

GRITNO

LESWP

FILSWP

REFERENCE INFORMATION

SREF	.0490	SO. M.
LREF	.1649	METERS
BREF	.3331	METERS
XMRP	.0878	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

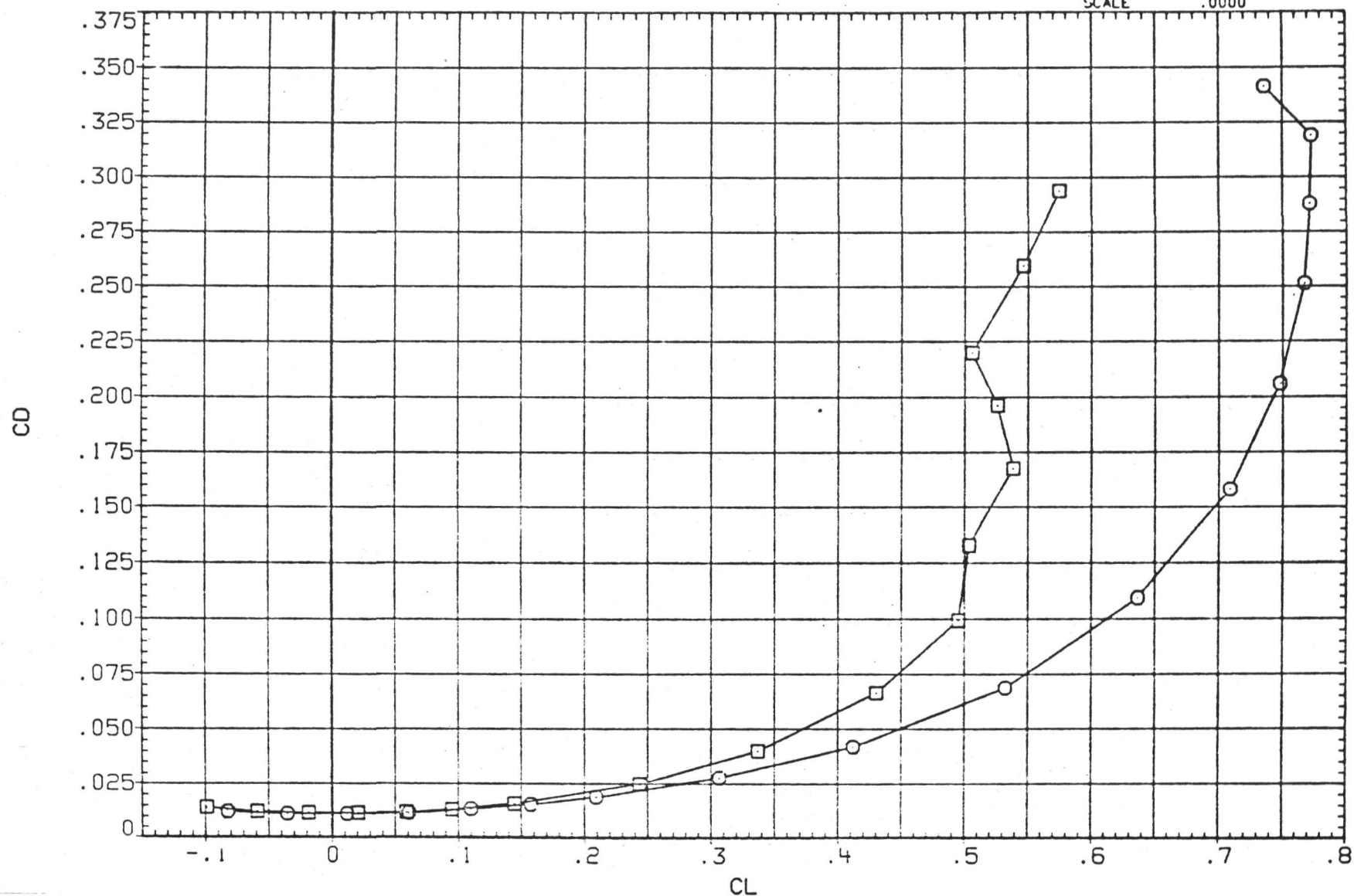


FIGURE 41. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 235 AND 581

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(JNC010) ○ WING II 0-35-0008
(JNC039) □ WING II 35-35-WEDGE

AMES 12-085 (LA65)
AMES 12-086 (LA65)

GRITNO

120.000
120.000

LESWP

35.000
35.000

FILSWP

35.000
35.000

REFERENCE INFORMATION

SREF .0490 SQ. M.
I.REF .1649 METERS
BREF .3331 METERS
XMRP .0878 M. XB
YMRP .0000 M. YB
ZMRP .0000 M. ZB
SCALE .0000

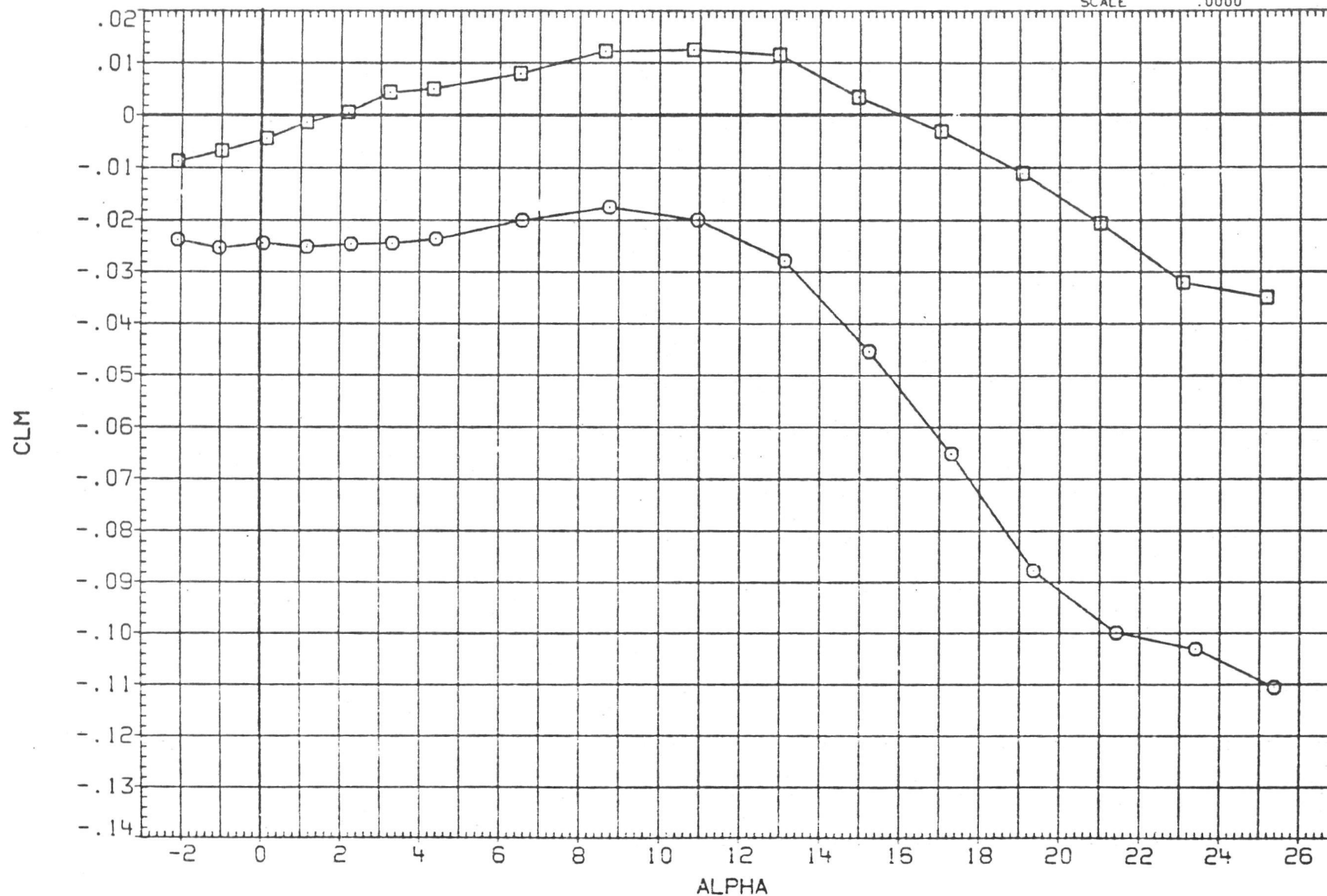


FIGURE 41. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 235 AND 581

(A)RN/M = 13.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(JNC010) ○ WING II 35-35-0009 AMES 12-086 (LA65)
 (JNC039) □ WING II 35-35-WEDGE AMES 12-086 (LA55)

GRITNO LESWP FILSWP
 120.000 35.000 35.000
 120.000 35.000 35.000

REFERENCE INFORMATION

SREF .0490 SQ. M.
 LREF .1649 METERS
 BREF .3331 METERS
 XMRP .0878 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

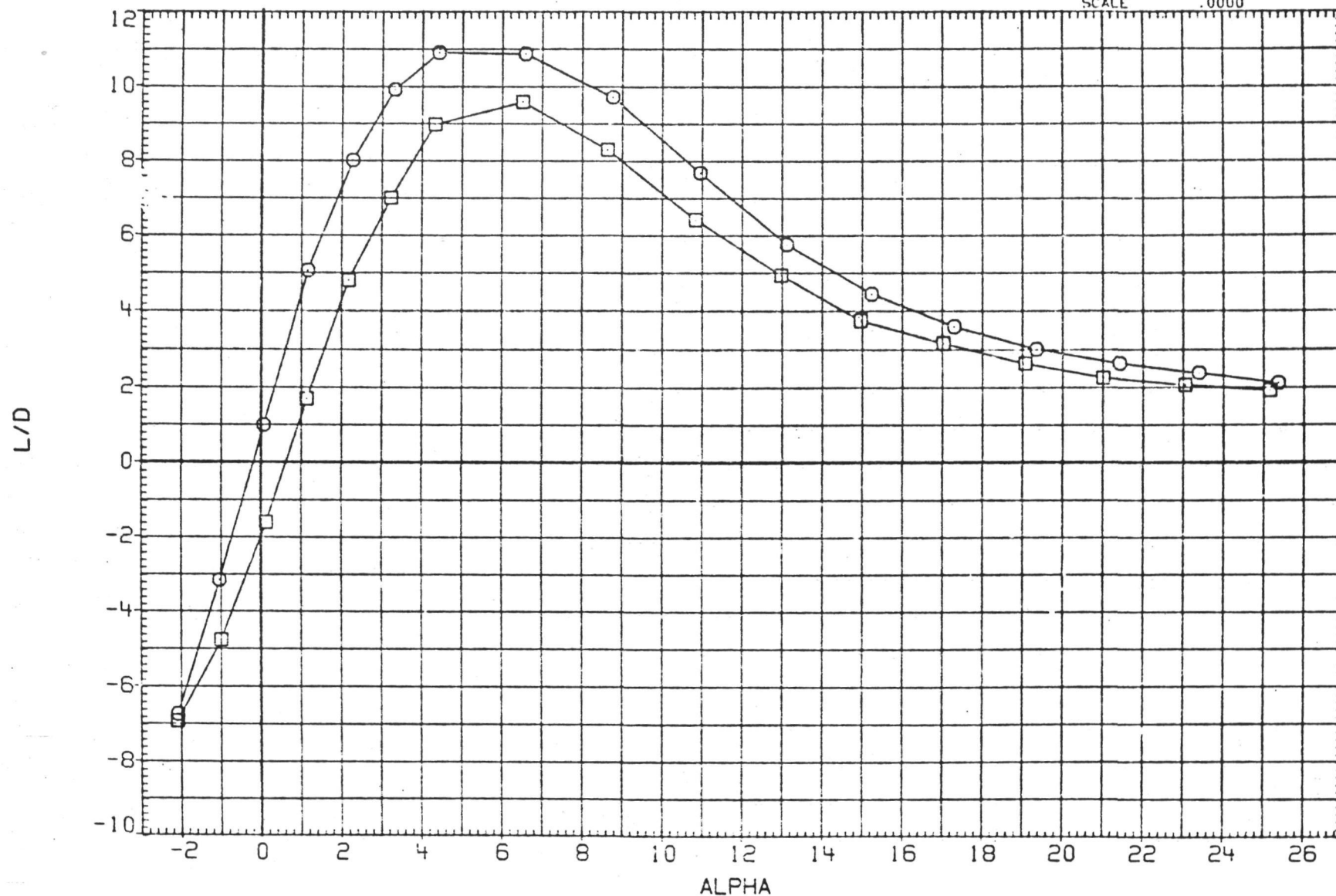


FIGURE 41. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 235 AND 581

(A) RN/M = 13.00

(JNC011)
(JNC040)WING II 35-80-0008
WING II 35-80-WEDGEAMES 12-086 (LA65)
AMES 12-086 (LA65)120.000
120.00035.000
35.00080.000
80.000

SREF	.0723	SQ. M.
LREF	.3215	METERS
BREF	.3331	METERS
XMRP	.3162	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

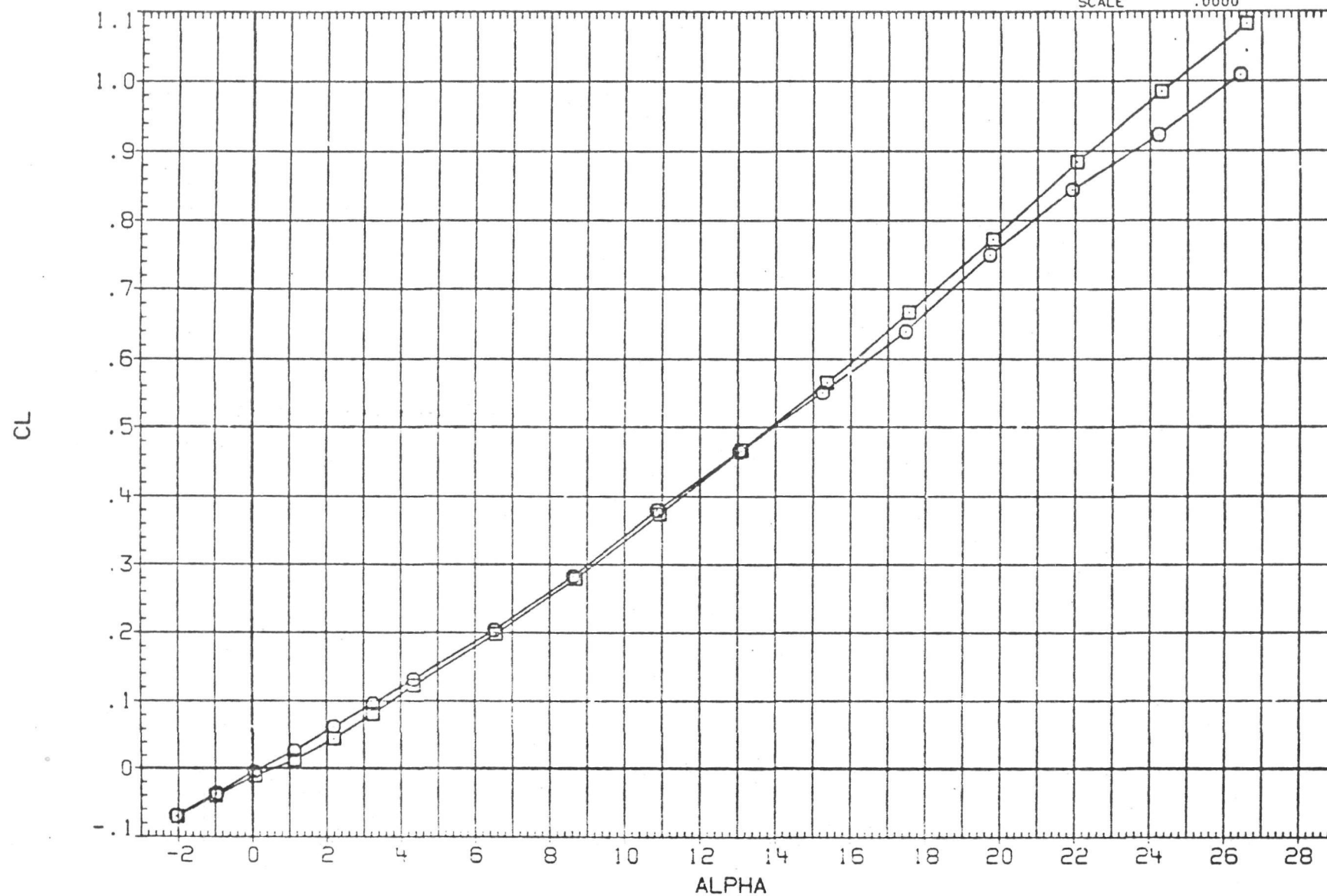


FIGURE 42. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 280 AND 582

(A) RN/M = 13.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(JNC011) ○ WING II 35-80-0008 AMES 12-086 (LA65)
 (JNC040) □ WING II 35-80-WEDGE AMES 12-086 (LA65)

GRITNO LESWP FILSWP
 120.000 35.000 80.000
 120.000 35.000 80.000

REFERENCE INFORMATION

SREF .0723 SQ. M.
 LREF .3215 METERS
 BREF .3331 METERS
 XMRP .3162 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

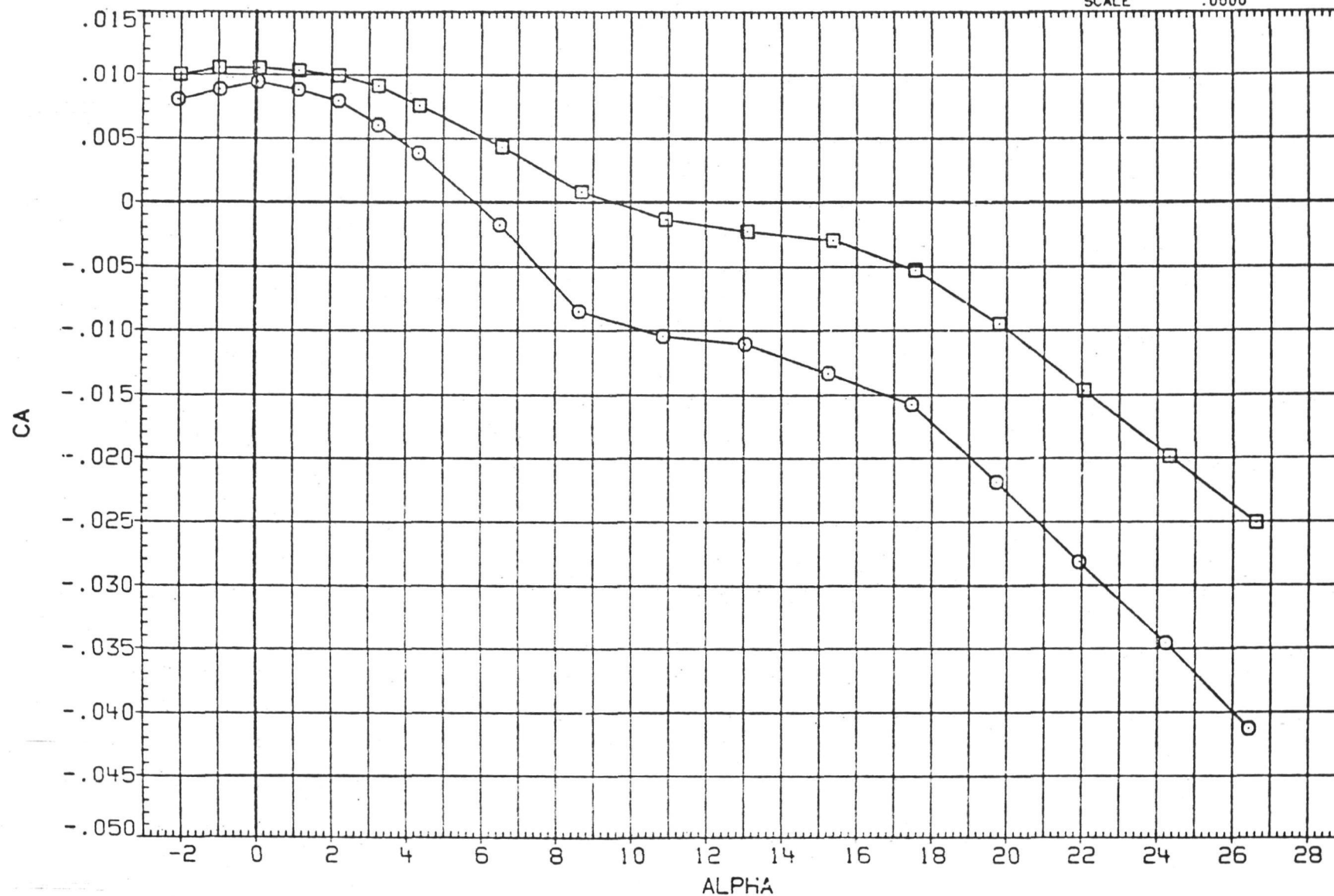


FIGURE 42. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 280 AND 582

(A) RN/M = 13.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(JNC011) ○ WING II 35-80-0008
(JNC040) □ WING II 35-90-WEDGE

AMES 12-086 (LA65)
AMES 12-086 (LA65)

GRITNO

120.000
120.000

LESWP

35.000
35.000

FILSWP

80.000
80.000

REFERENCE INFORMATION

SREF .0723 SQ. M.
LREF .3215 METERS
BREF .3331 METERS
XMRP .3162 M. XB
YMRP .0000 M. YB
ZMRP .0000 M. ZB
SCALE .0000

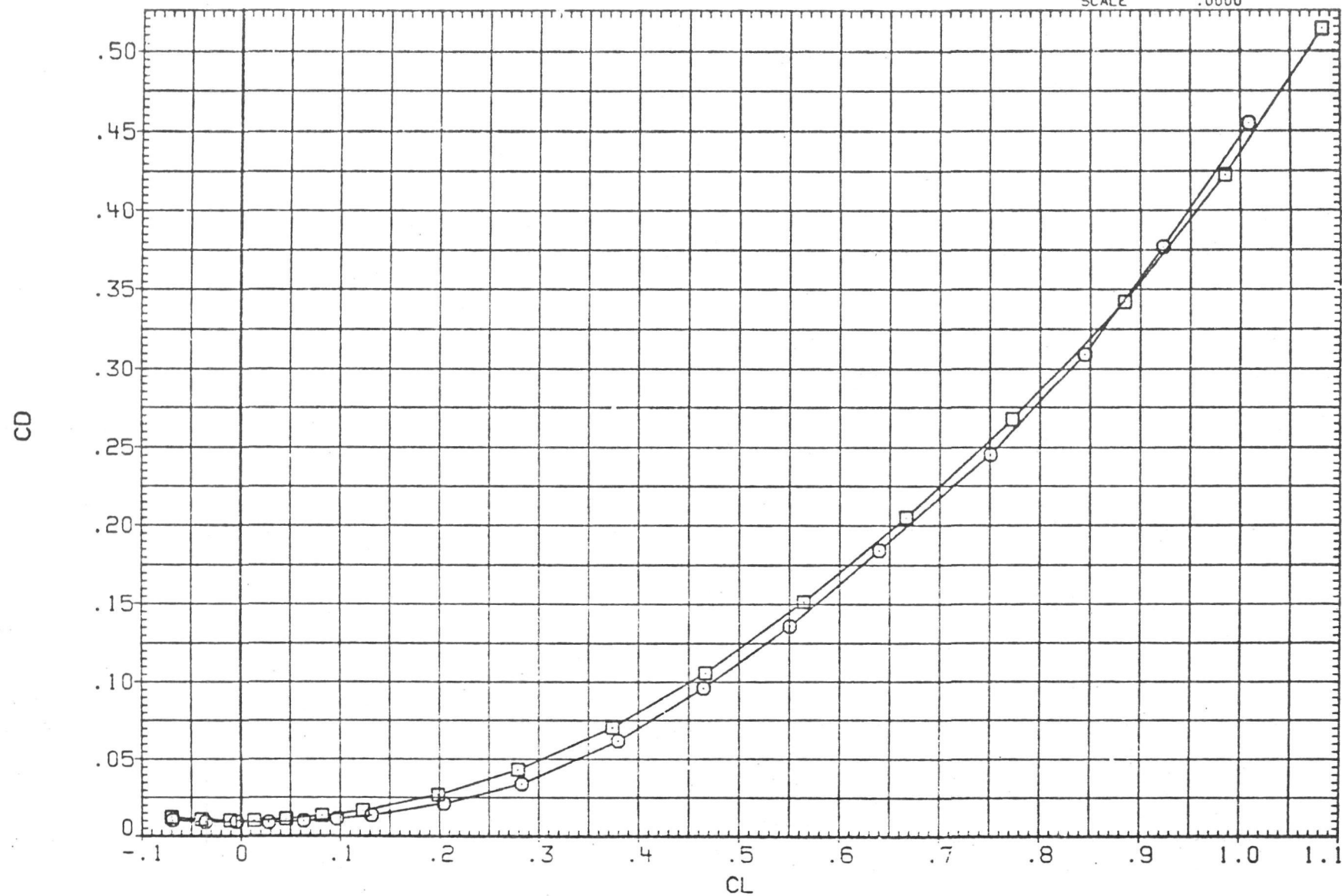


FIGURE 42. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 280 AND 582

(A) RN/M = 13.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(JNC011) ○ WING II 35-80-0008 AMES 12-086 (LA65)

(JNC040) □ WING II 35-80-WEDGE AMES 12-086 (LA65)

GRITNO

LESHP

FILSWP

REFERENCE INFORMATION

SREF .0723 SQ. M.
LREF .3215 METERS
BREF .3331 METERS
XMRP .3162 M. XB
YMRP .0000 M. YB
ZMRP .0000 M. ZB
SCALE .0000



FIGURE 42. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 780 AND 582

(A) RN/M = 13.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(JNC011)	○	WING II 35-80-0008
(JNC040)	□	WING II 35-80-WEDGE

AMES 12-086 (LA65)
AMES 12-086 (LA65)

GRITNO	LESWP	FILSWP
120.000	35.000	80.000
120.000	35.000	80.000

REFERENCE INFORMATION		
SREF	.0723	SO. M.
LREF	.3215	METERS
BREF	.3331	METERS
XMRP	.3162	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

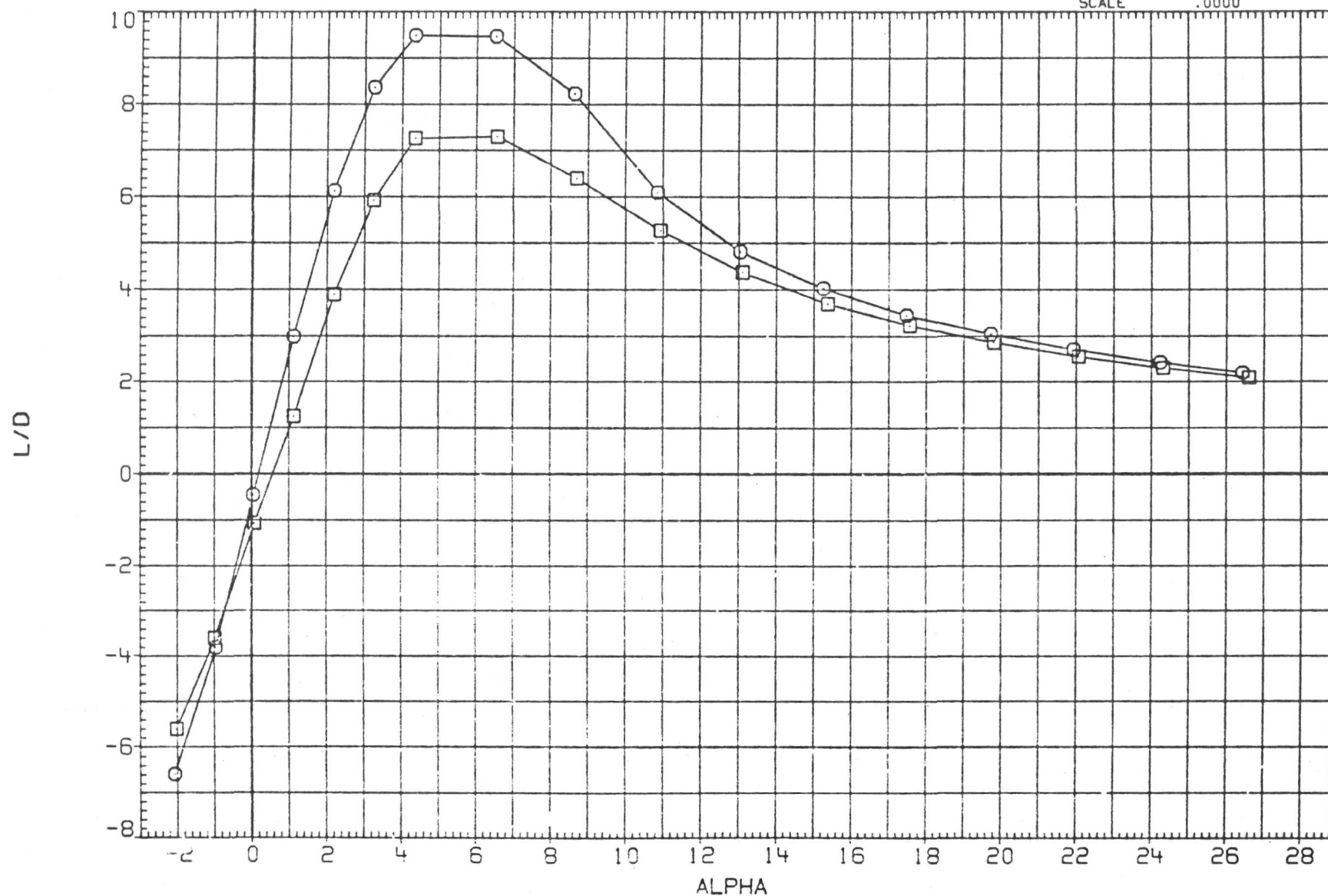


FIGURE 42. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 280 AND 582

(A) RN/M = 13.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(JNC031)	○	WING V 60-60-0008
(JNC041)	□	WING V 60-60-WEDGE

AMES 12-086 (LA65)
AMES 12-086 (LA65)

GRITNO	LESWP	FILSWP
120.000	60.000	60.000
120.000	60.000	60.000

REFERENCE INFORMATION		
SREF	.0490	SQ. M.
LREF	.1942	METERS
BREF	.3331	METERS
XMRP	.1456	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

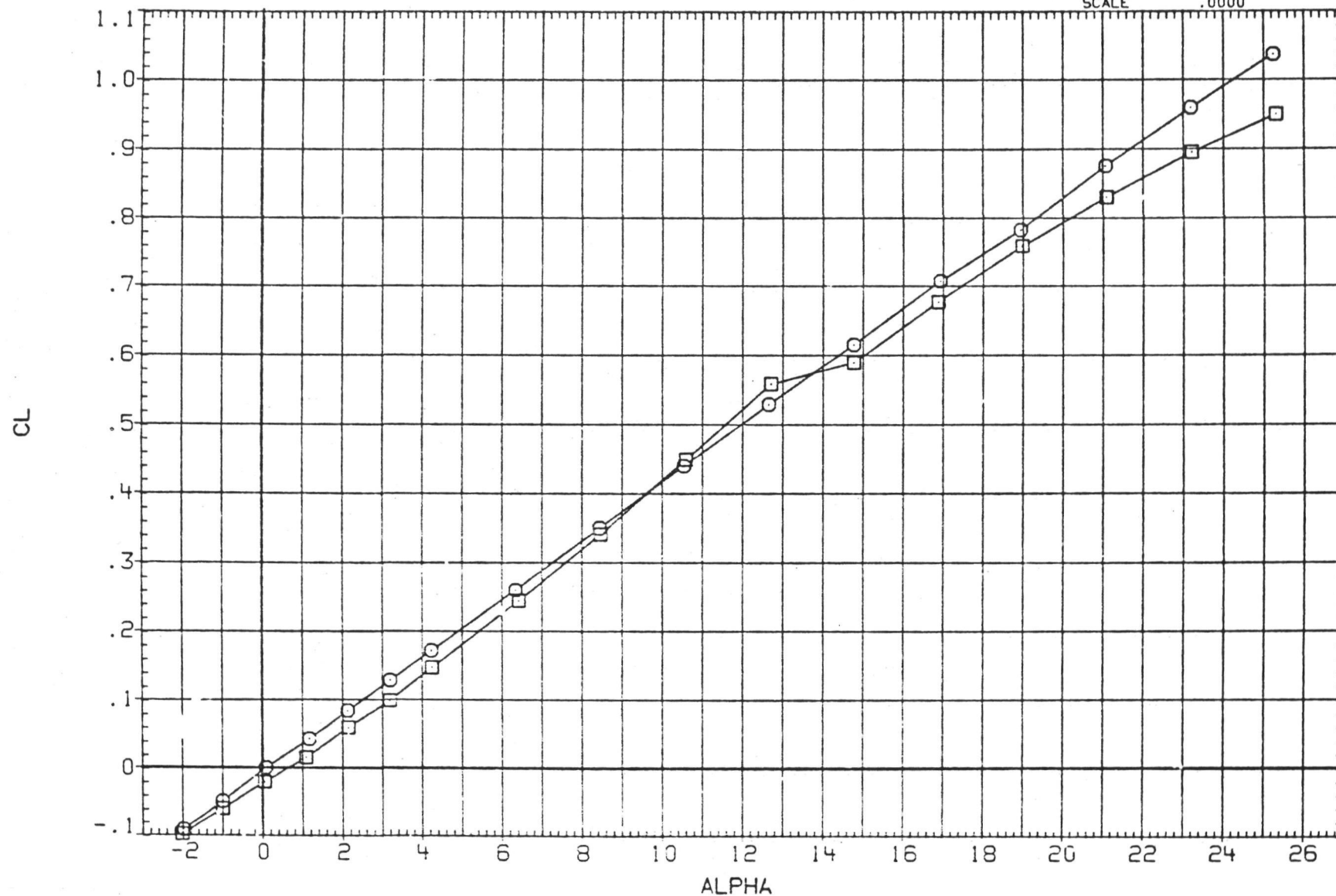


FIGURE 43. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 560 AND 583

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(JNC031)	○	WING V 60-60-0008
(JNC041)	□	WING V 60-60-WEDGE

AMES 12-086 (LA65)
AMES 12-086 (LA65)

GRITNO	LESHP	FILSWP
120.000	60.000	60.000
120.000	50.000	60.000

REFERENCE INFORMATION		
SREF	.0490	SO. M.
LREF	.1942	METERS
BREF	.3331	METERS
XMRP	.1456	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

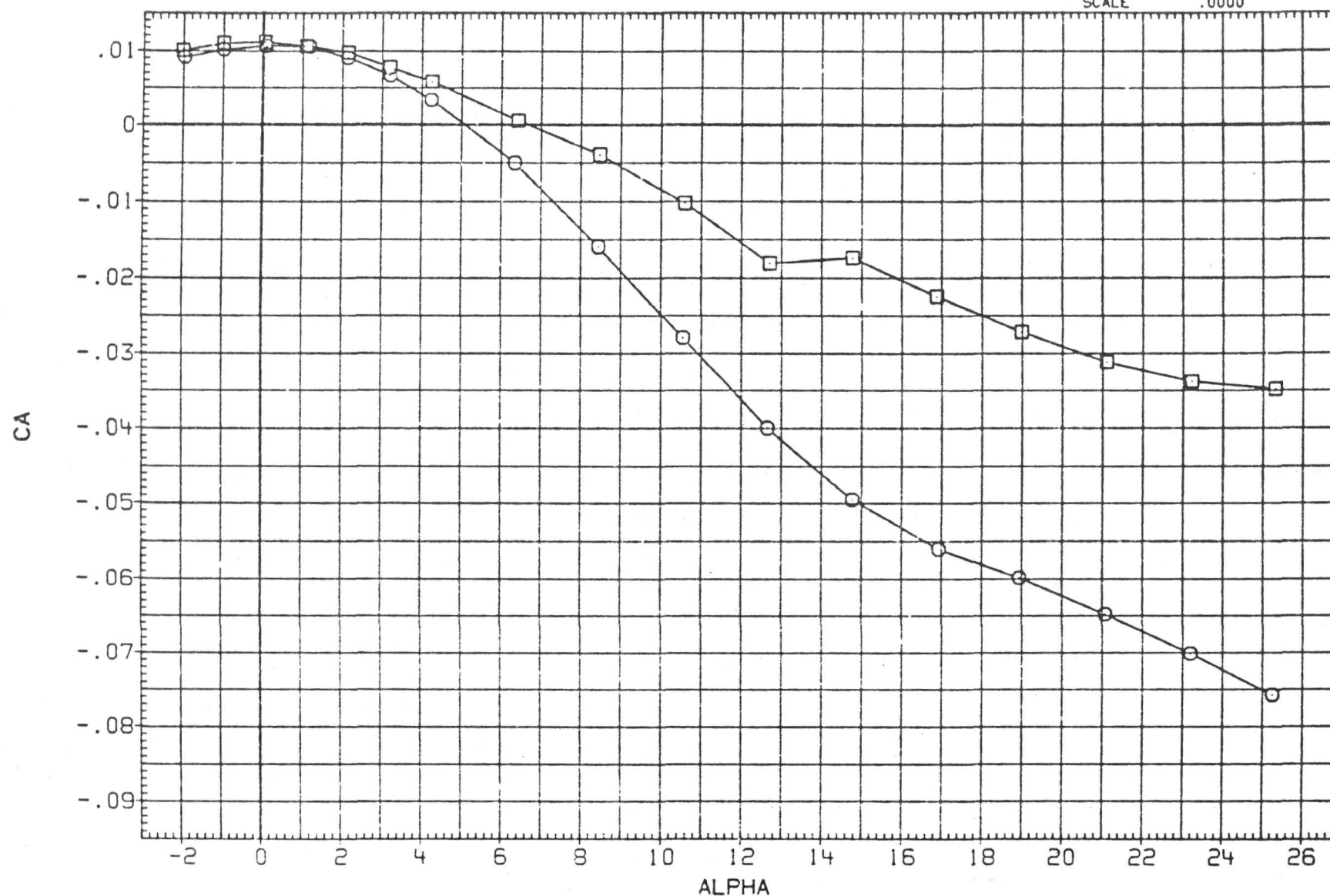


FIGURE 43. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 560 AND 583

(A) RN/M = 13.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(JNC031) ○ WING V 60-60-0008
(JNC041) □ WING V 60-60-WEDGE

AMES 12-086 (LA65)
AMES 12-086 (LA65)

GRITNO LESWP FILSWP
120.000 60.000 60.000
120.000 60.000 60.000

REFERENCE INFORMATION

SREF .0490 SQ. M.
LREF .1942 METERS
BREF .3331 METERS
XMRP .1456 M. XB
YMRP .0000 M. YB
ZMRP .0000 M. ZB
SCALE .0000

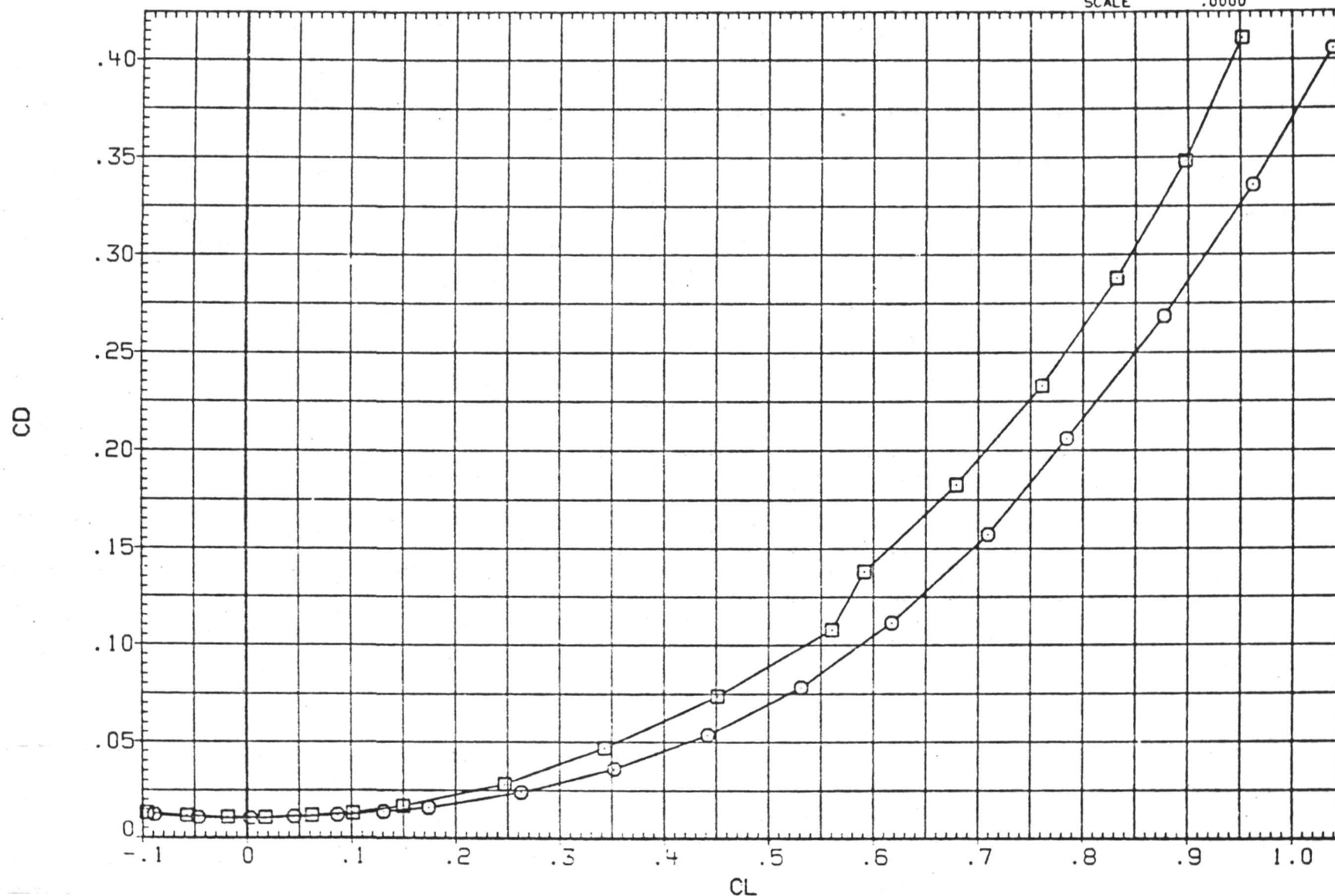


FIGURE 43. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 560 AND 583

(A) RN/M = 13.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(JNC031)	○	WING V 60-60-0008
(JNC041)	□	WING V 60-60-WEDGE

GRITNO	LESWP	FILSWP
AMES 12-086 (LA65)	120.000	60.000
AMES 12-096 (LA55)	120.000	60.000

REFERENCE INFORMATION
SREF .0490 SQ. M.
LREF .1942 METERS
BREF .3331 METERS
XMRP .1456 M. XB
YMRP .0000 M. YB
ZMRP .0000 M. ZB
SCALE .0000

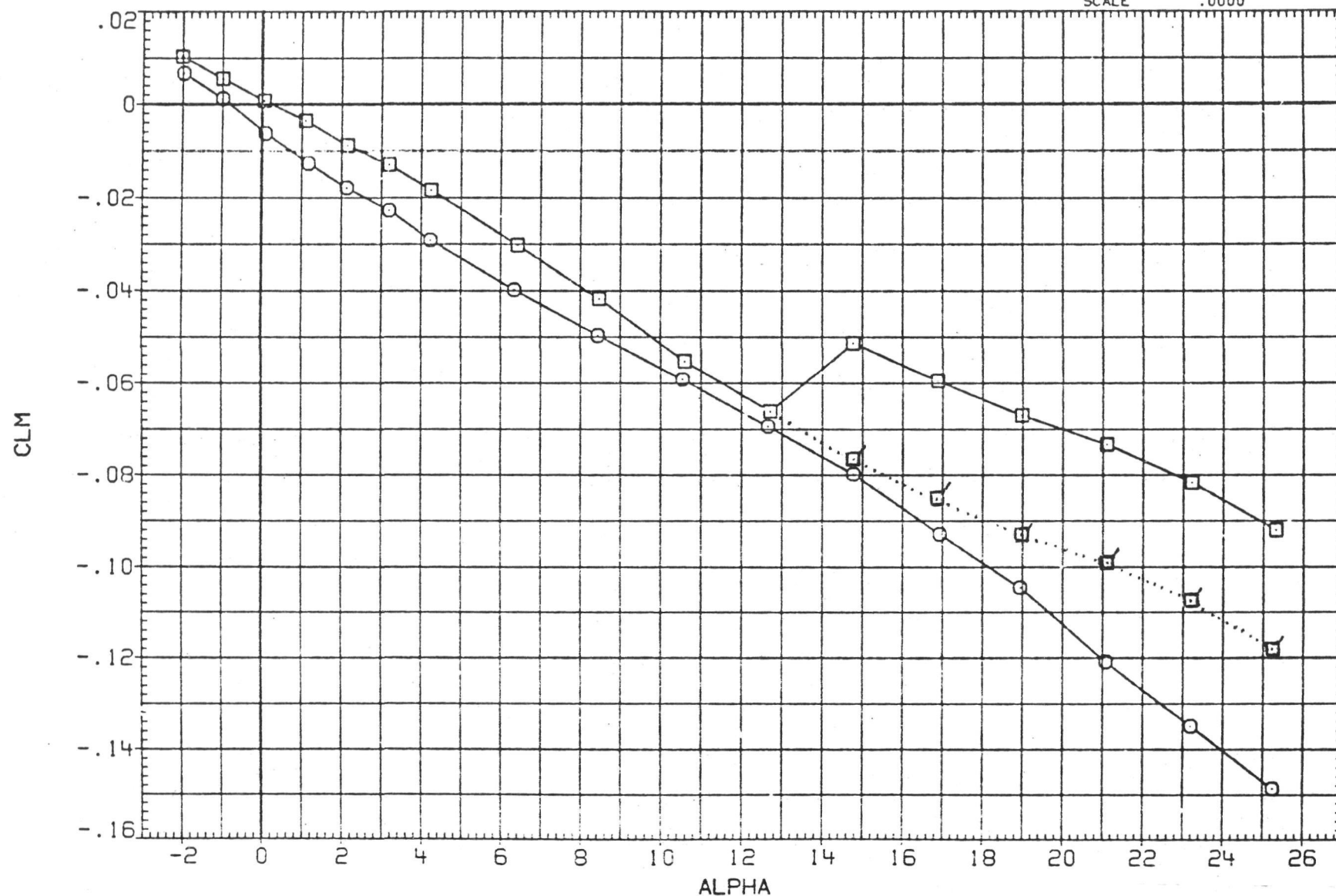


FIGURE 43. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 560 AND 583

(A) RN/M = 13.00

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(JNC031)	○	WING V 60-60-0008
(JNC041)	□	WING V 60-60-WEDGE

AMES 12-085 (LA65)
AMES 12-086 (LA65)

GRITNO	LESHP	FILSWP
120.000	60.000	60.000
120.000	60.000	60.000

REFERENCE INFORMATION		
SREF	.0490	SQ. M.
LREF	.1942	METERS
BREF	.3331	METERS
XMRP	.1456	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

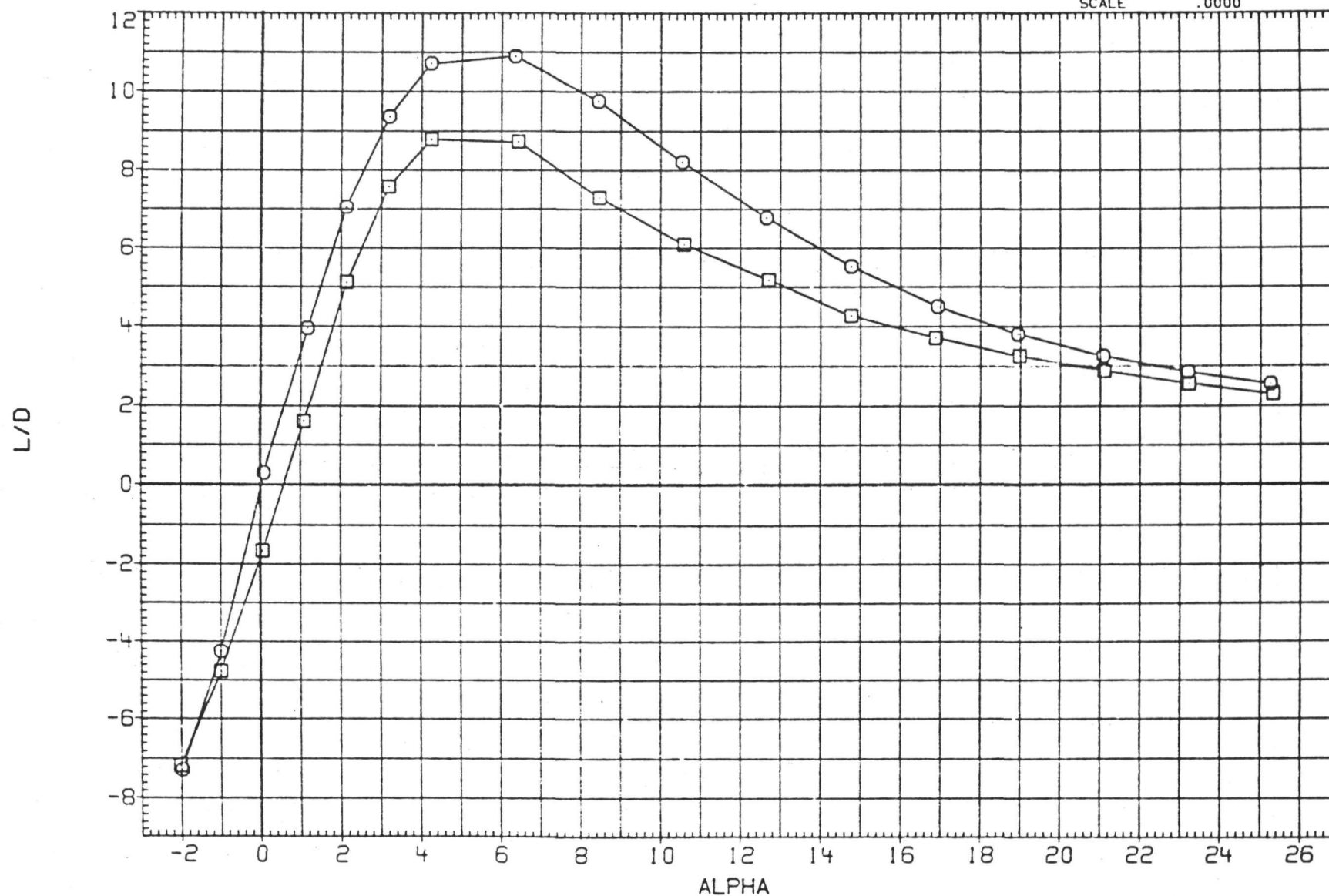


FIGURE 43. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 560 AND 583

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
(JNC032)	○	WING V 60-80-0008
(JNC042)	□	WING V 60-80-WEDGE

GRITNO	LESWP	FILSWP
AMES 12-086 (LA65)	120.000	60.000
AMES 12-086 (LA65)	120.000	60.000

GRITNO	LESWP	FILSWP
120.000	60.000	80.000
120.000	60.000	80.000

REFERENCE INFORMATION		
SREF	.0675	SQ. M.
LREF	.3284	METERS
BREF	.3331	METERS
XMRP	.3150	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

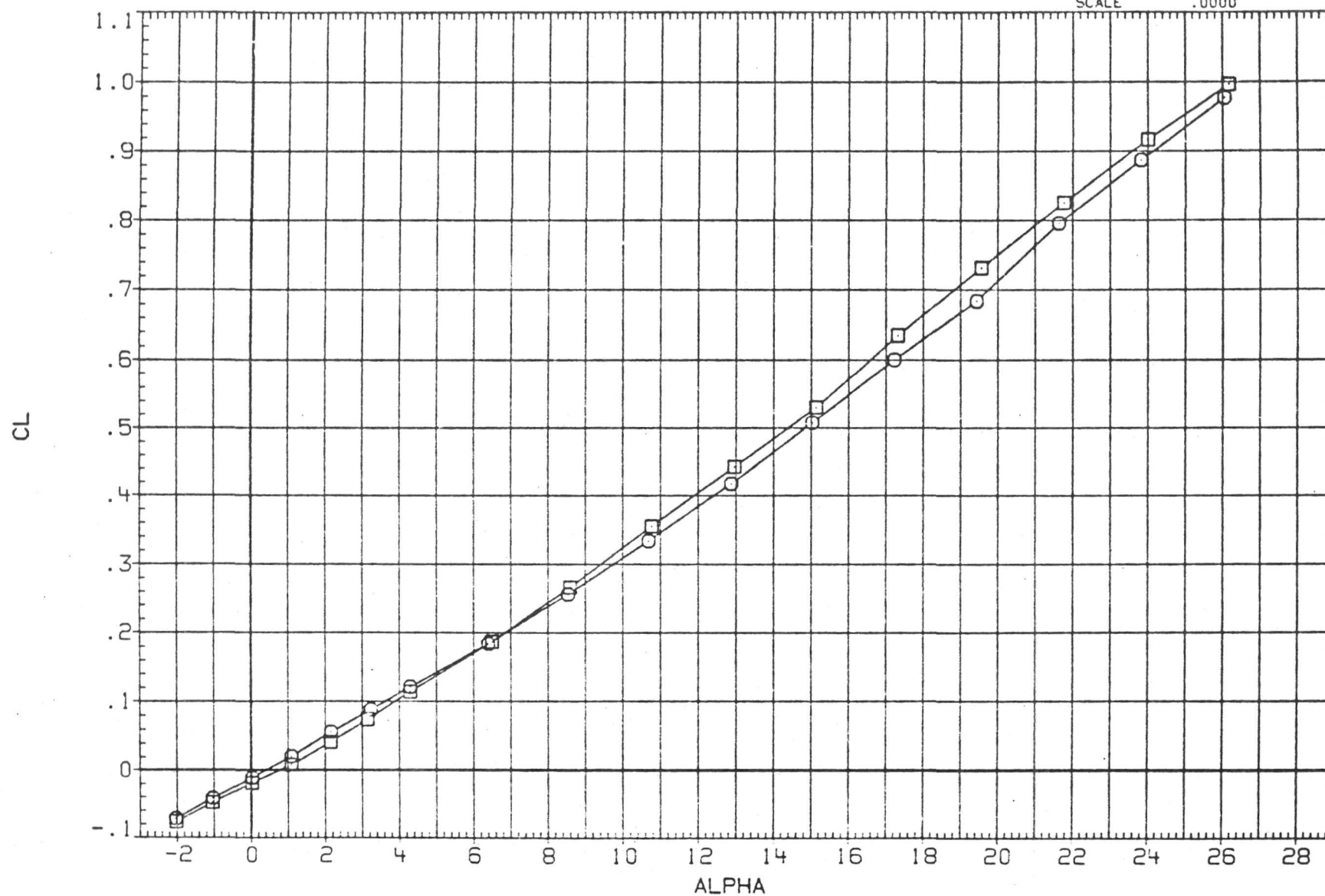


FIGURE 44. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 580 AND 584

(A) RN/M = 13.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(JNC032) ○ WING V 60-80-0008 AMES 12-086 (LA55)
 (JNC042) □ WING V 60-80-WEDGE AMES 12-086 (LA55)

GRITNO LESWP FILSWP
 120.000 60.000 80.000
 120.000 60.000 80.000

REFERENCE INFORMATION
 SREF .0675 SQ. M.
 LREF .3284 METERS
 BREF .3331 METERS
 XMRP .3150 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

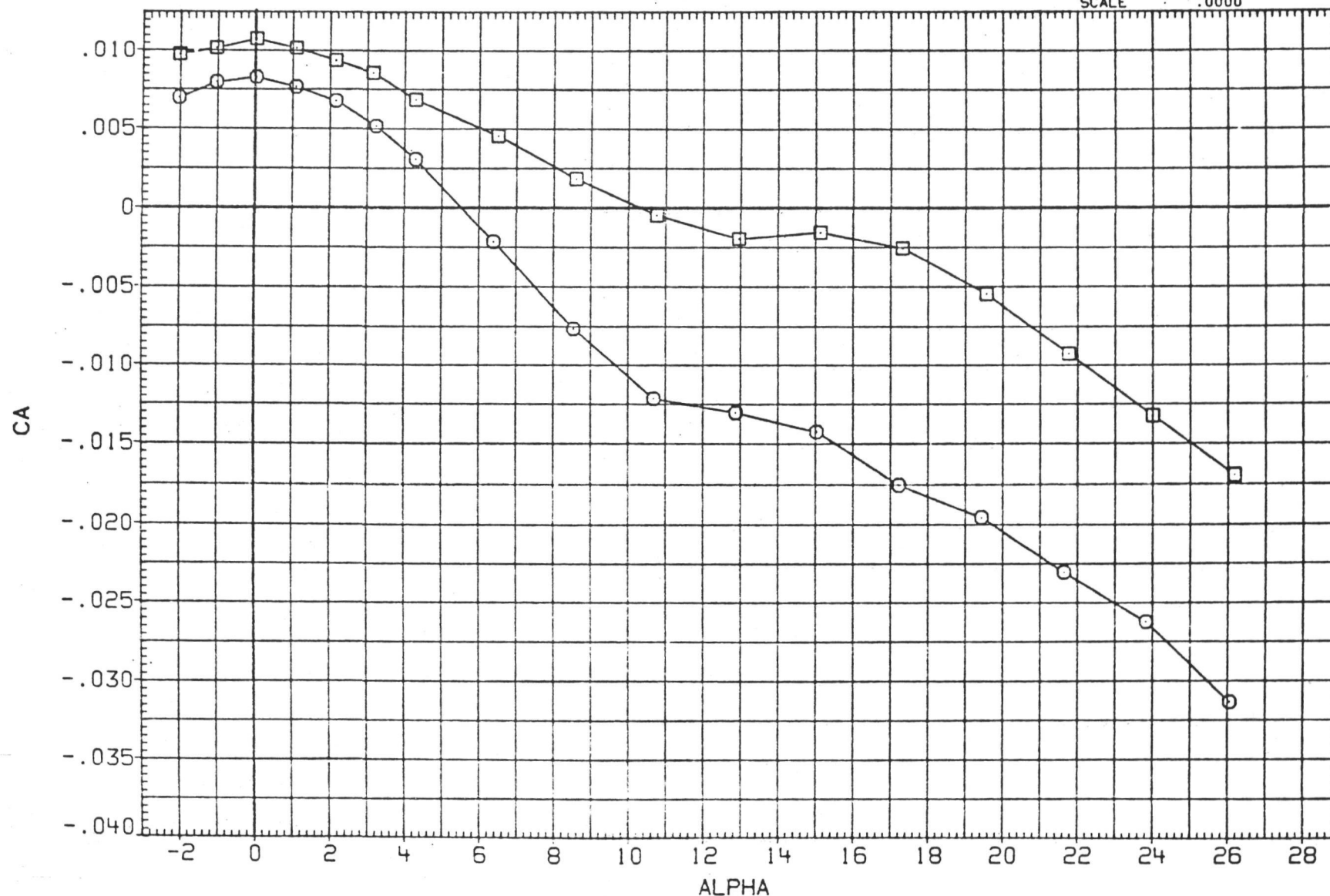


FIGURE 44. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 580 AND 584

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION	AMES 12-086 (LA65)	GRITNO	LESWP	FILSWP
(JNC032)	○	WING V 60-80-0008	AMES 12-086 (LA65)	120.000	60.000	80.000
(JNC042)	□	WING V 60-80-WEDGE	AMES 12-086 (LA65)	120.000	60.000	80.000

SREF	.0675	SQ. M.
LREF	.3284	METERS
BREF	.3331	METERS
XMRP	.3150	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

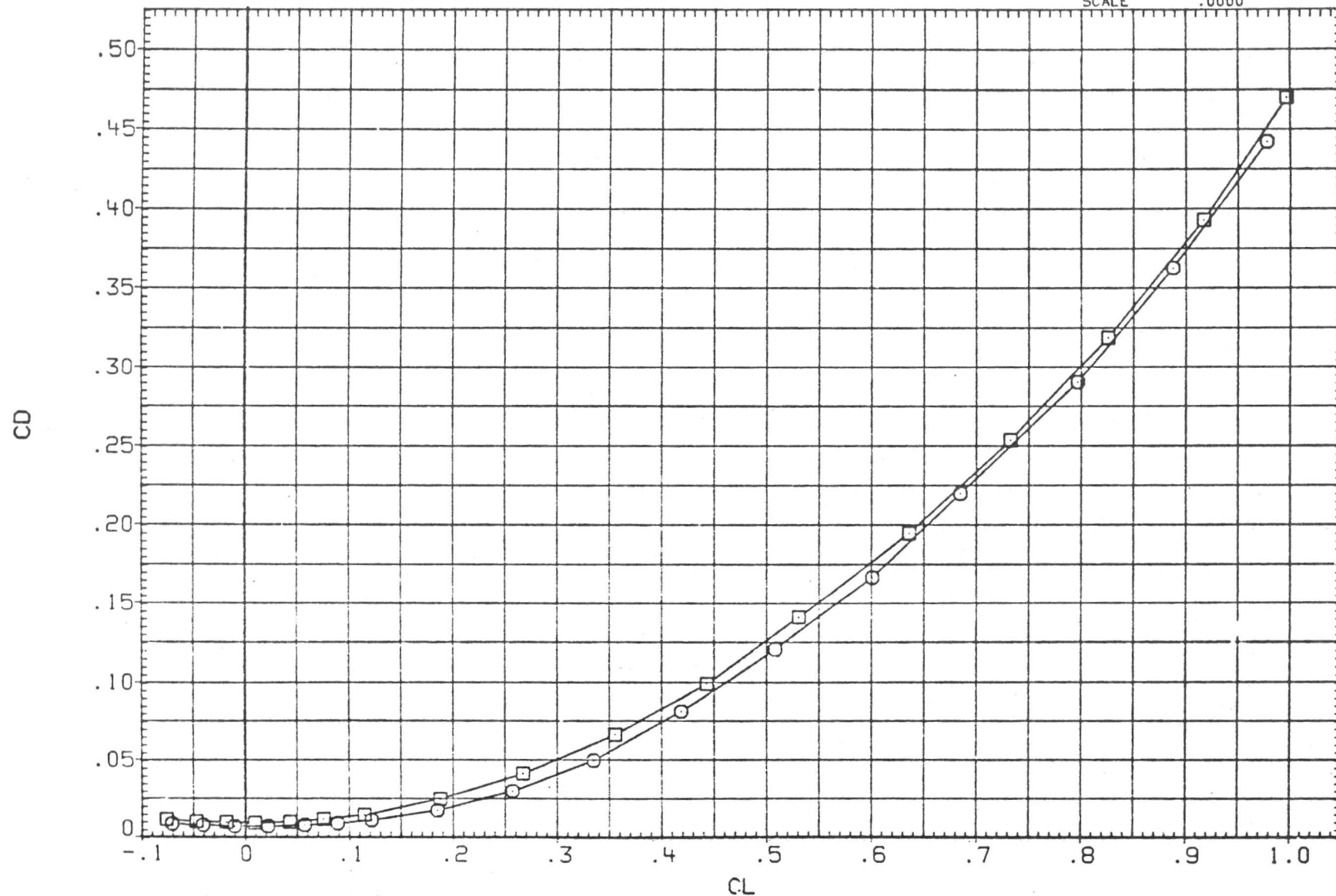


FIGURE 44. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 580 AND 584

(A) RN/M = 13.00

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(JNC032) ○ WING V 60-80-0008 AMES 12-086 (LA65)
 (JNC042) □ WING V 60-80-WEDGE AMES 12-086 (LA65)

GRITNO LESWP FILSWP
 120.000 60.000 80.000
 120.000 60.000 80.000

REFERENCE INFORMATION
 SREF .0675 SQ. M.
 LREF .3284 METERS
 BREF .3331 METERS
 XMRP .3150 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

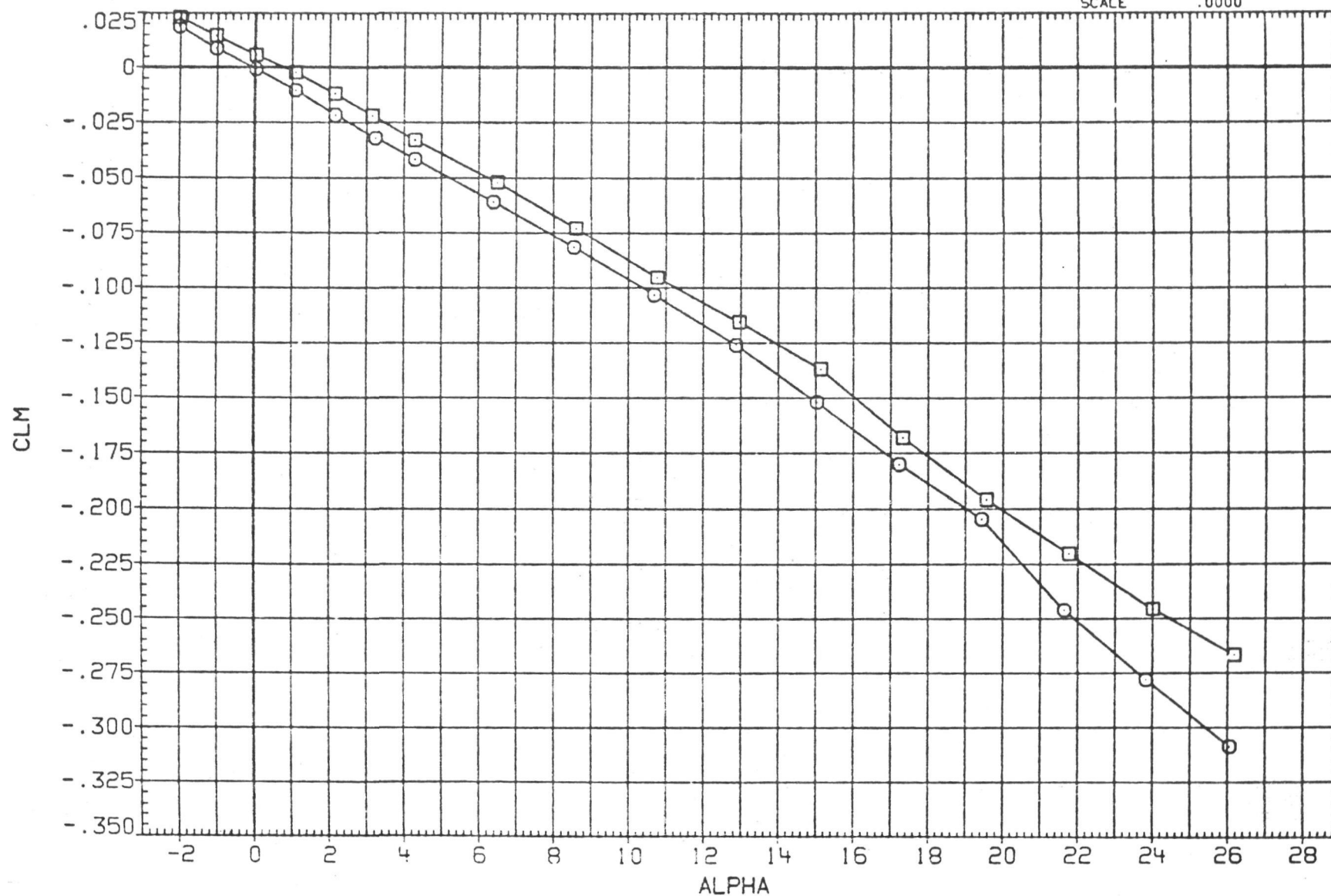


FIGURE 44. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 580 AND 584

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(JNC032) $\square$ WING V 60-80-0008
(JNC042) $\square$ WING V 60-80-WEDGE

AMES 12-086 (LA65)
AMES 12-085 (LA65)

GRITNO
120.000
120.000

LESWP
60.000
60.000

FILSWP
80.000
80.000

REFERENCE INFORMATION
SREF .0675 SQ. M.
LREF .3284 METERS
BREF .3331 METERS
XMRP .3150 M. XB
YMRP .0000 M. YB
ZMRP .0000 M. ZB
SCALE .0000

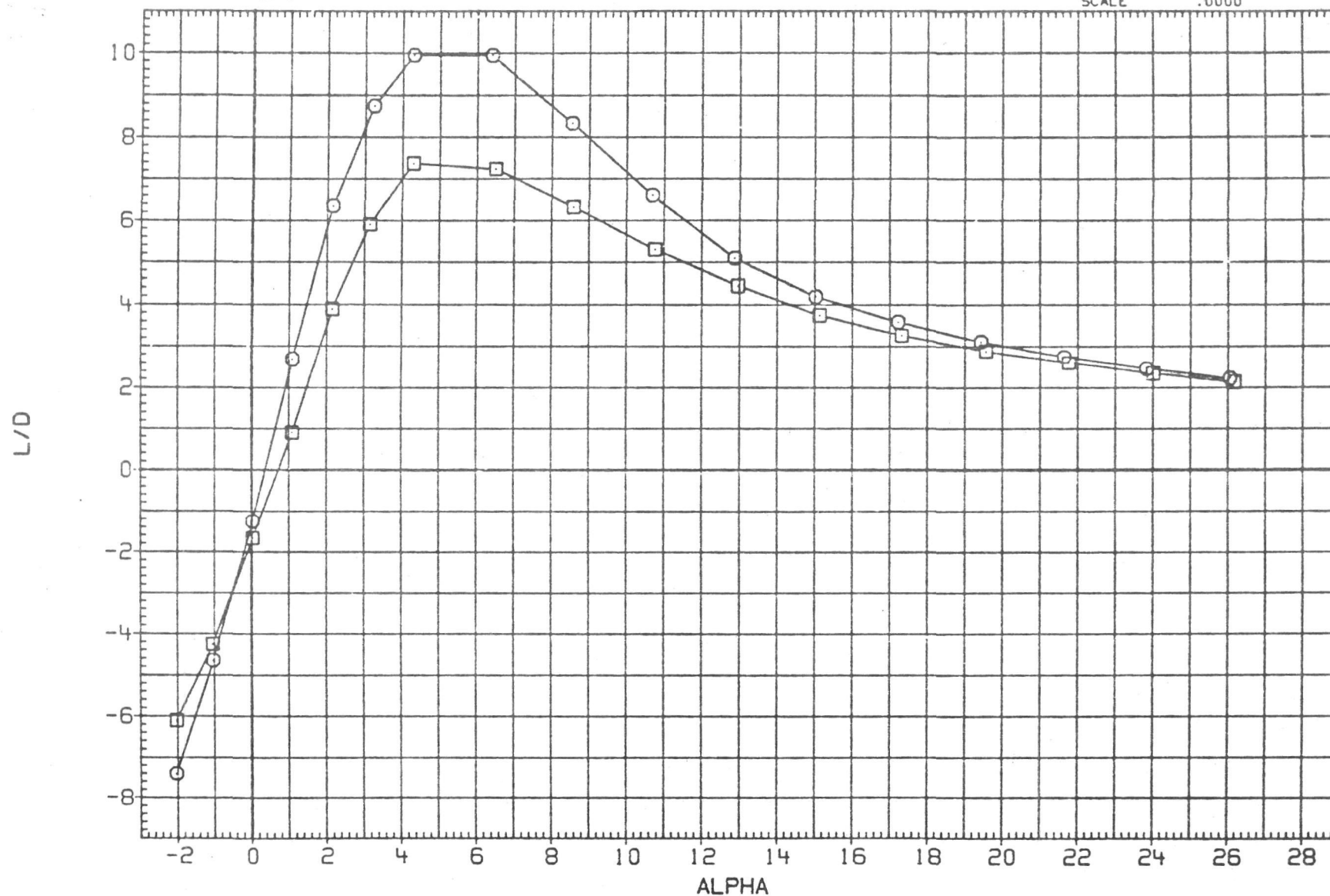


FIGURE 44. LONGITUDINAL CHARACTERISTICS OF CONFIGURATIONS 580 AND 584

(A) RN/M = 13.00

(JNC037) WING I 25-80-0012
 SYMBOL RN/M T/C FILSHP BETA GRITNO
 ○ 13.065
 □ 19.565
 ◇ 26.287

PARAMETRIC VALUES
 .120 LESHIP 25.000
 80.000 TESHP 25.000
 .000 MACH .300
 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0734 SQ. M.
 LREF .3220 METERS
 BREF .3331 METERS
 XMRP .3152 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

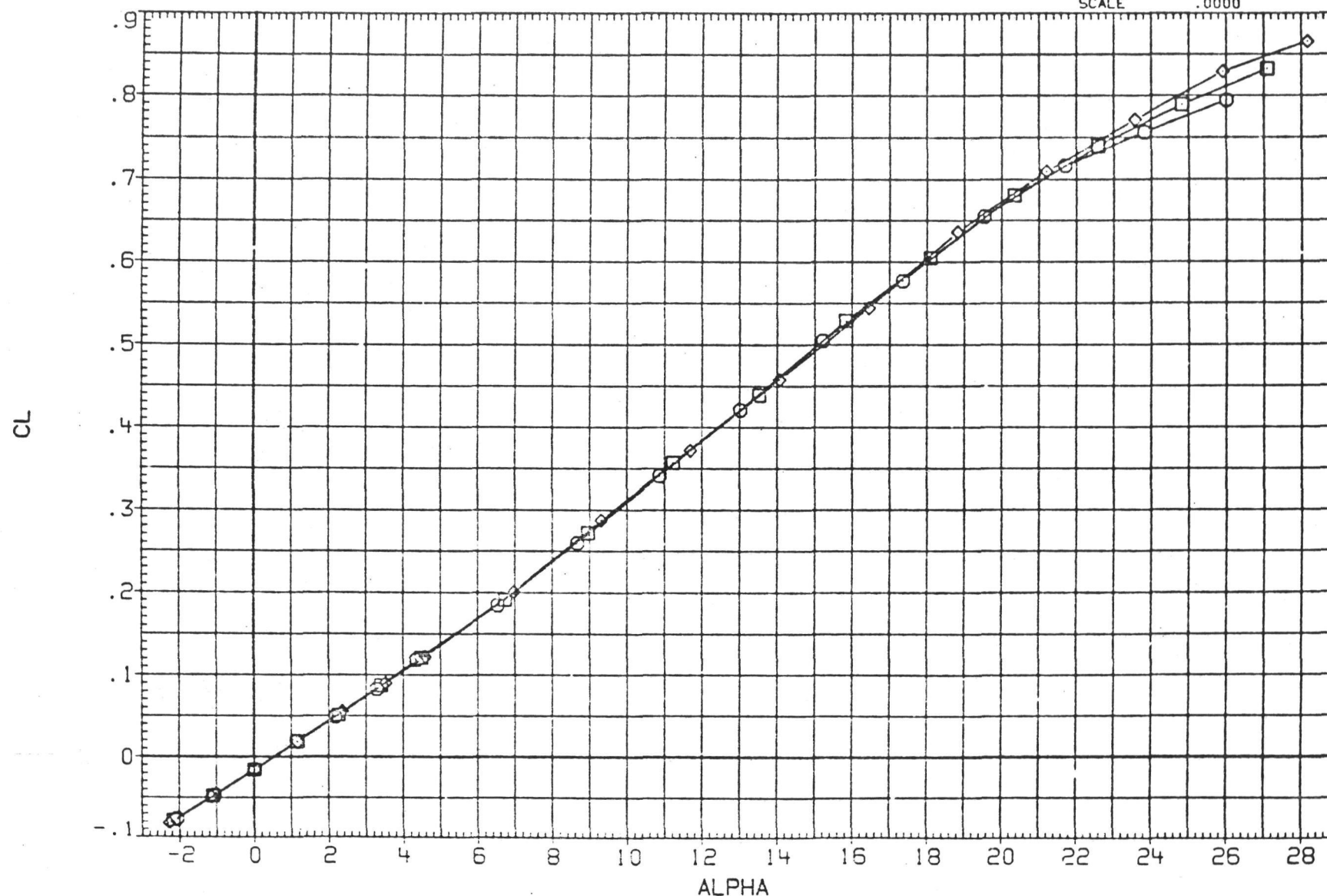


FIGURE 45. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 587

(JNC037) WING I 25-80-0012
 SYMBOL RN/M PARAMETRIC VALUES
 ○ 13.065 T/C .120 LESHP 25.000
 □ 19.565 FILSWP 80.000 TESHP 25.000
 ◇ 26.287 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0734 SQ. M.
 LREF .3220 METERS
 BREF .3331 METERS
 XMRP .3152 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

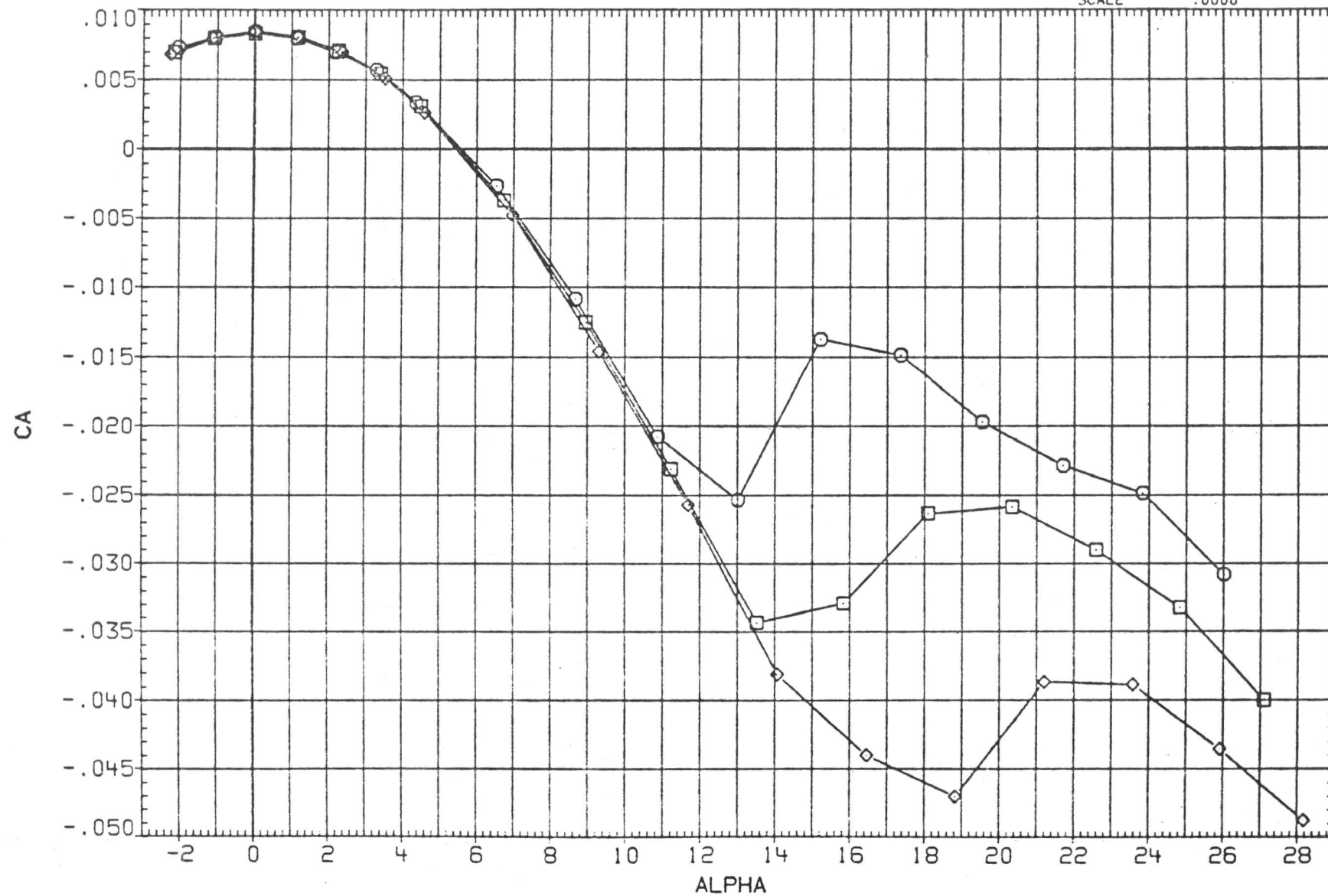


FIGURE 45. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 587

(JNC037) WING I 25-80-0012
 SYMBOL RN/M PARAMETRIC VALUES
 ○ 13.065 T/C .120 LESWP 25.000
 □ 19.565 FILSWP 80.000 TESWP 25.000
 ◇ 26.287 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0734 SQ. M.
 LREF .3220 METERS
 BREF .3331 METERS
 XMRP .3152 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

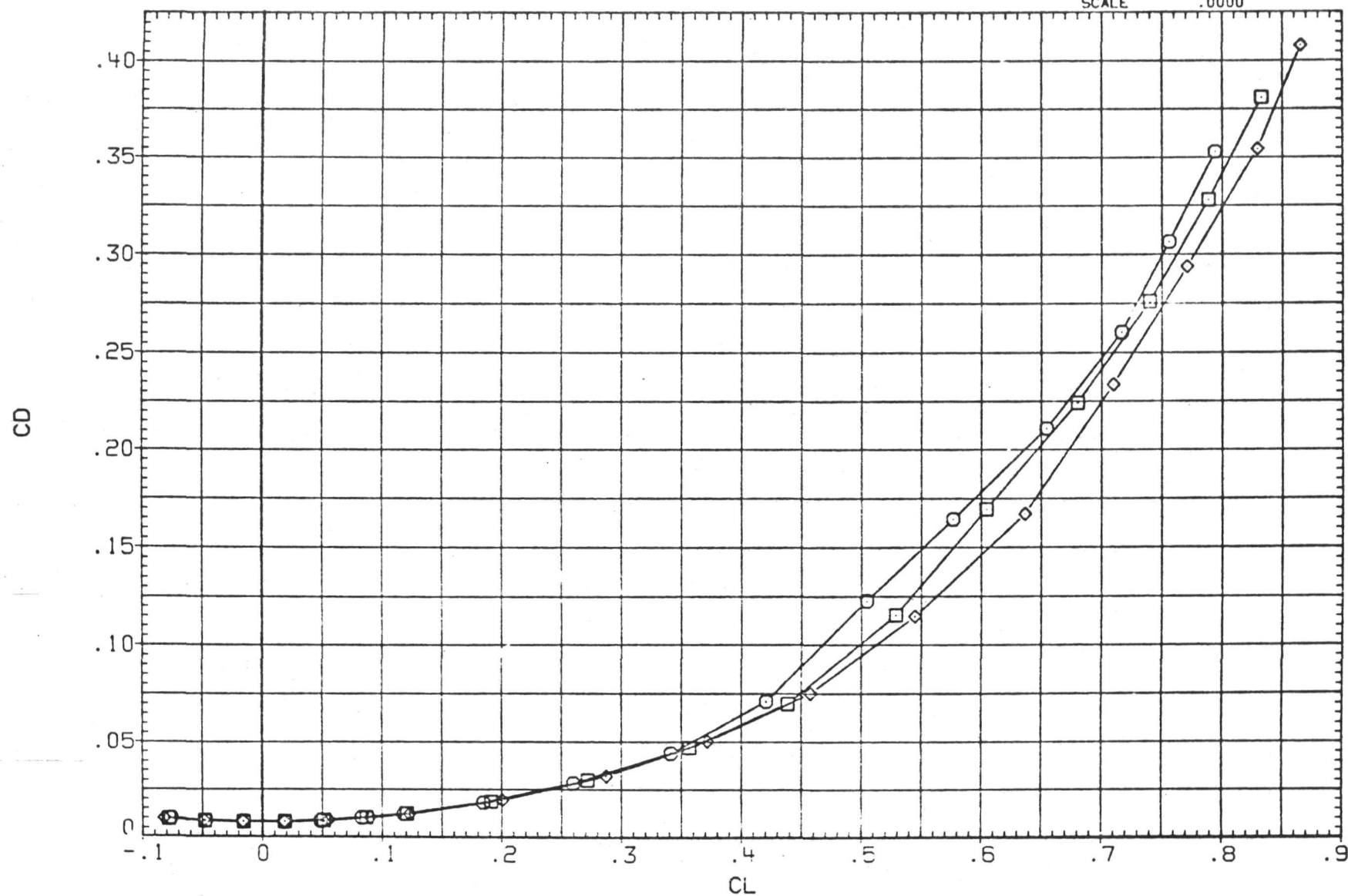


FIGURE 45. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 587

(JNC037) WING I 25-80-0012
 SYMBOL RN/M PARAMETRIC VALUES
 ○ 13.065 T/C .120 LESWP 25.000
 □ 19.565 FILSWP 80.000 TESWP 25.000
 ◇ 26.287 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0734 SQ. M.
 LREF .3220 METERS
 BREF .3331 METERS
 XMRP .3152 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

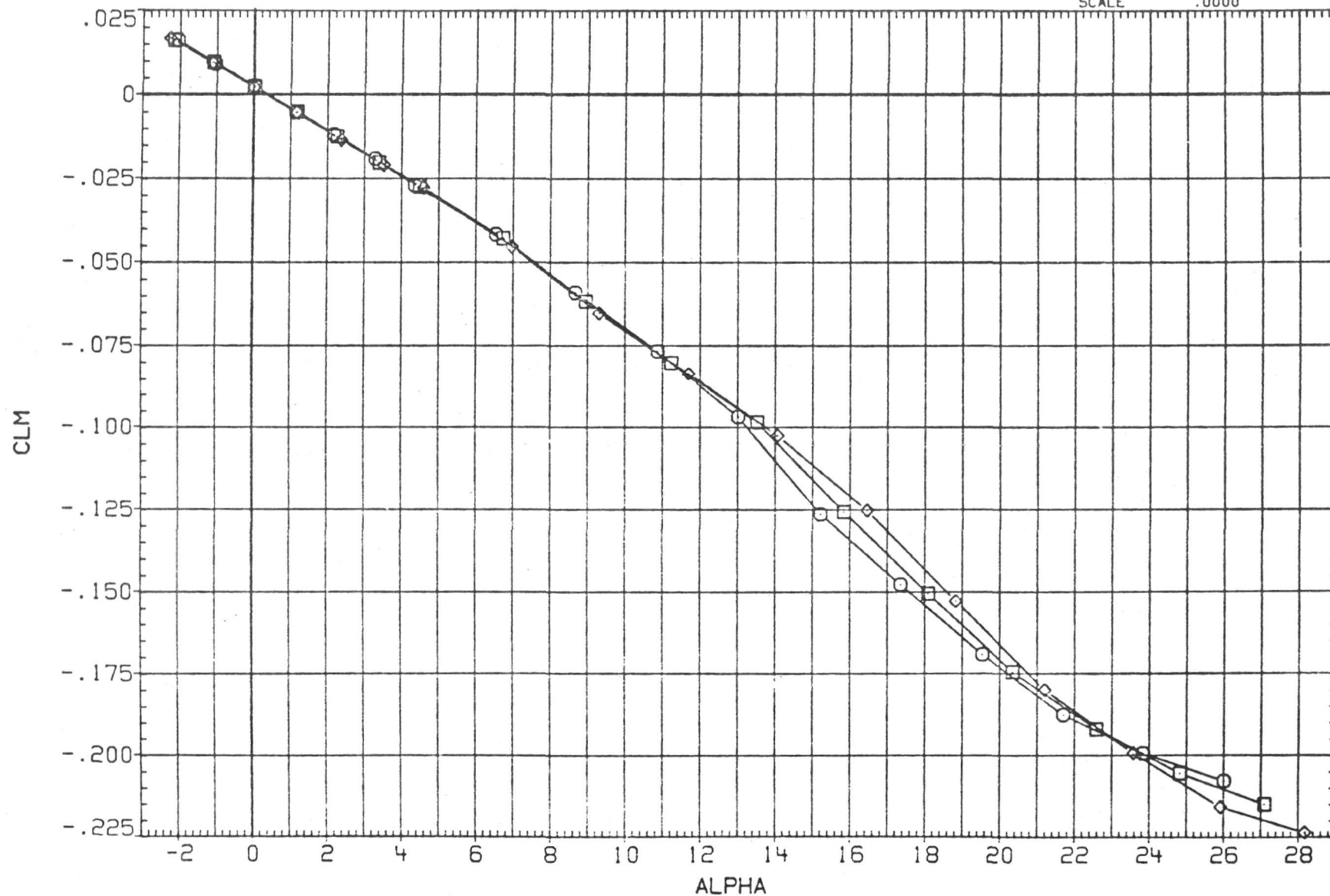


FIGURE 45. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 587

(JNC037) WING I 25-80-0012

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	13.065	T/C	.120	LESWP	25.000
□	19.565	FILSWP	80.000	TESWP	25.000
◇	26.287	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0734	SQ. M.
LREF	.3220	METERS
BREF	.3331	METERS
XMRP	.3152	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

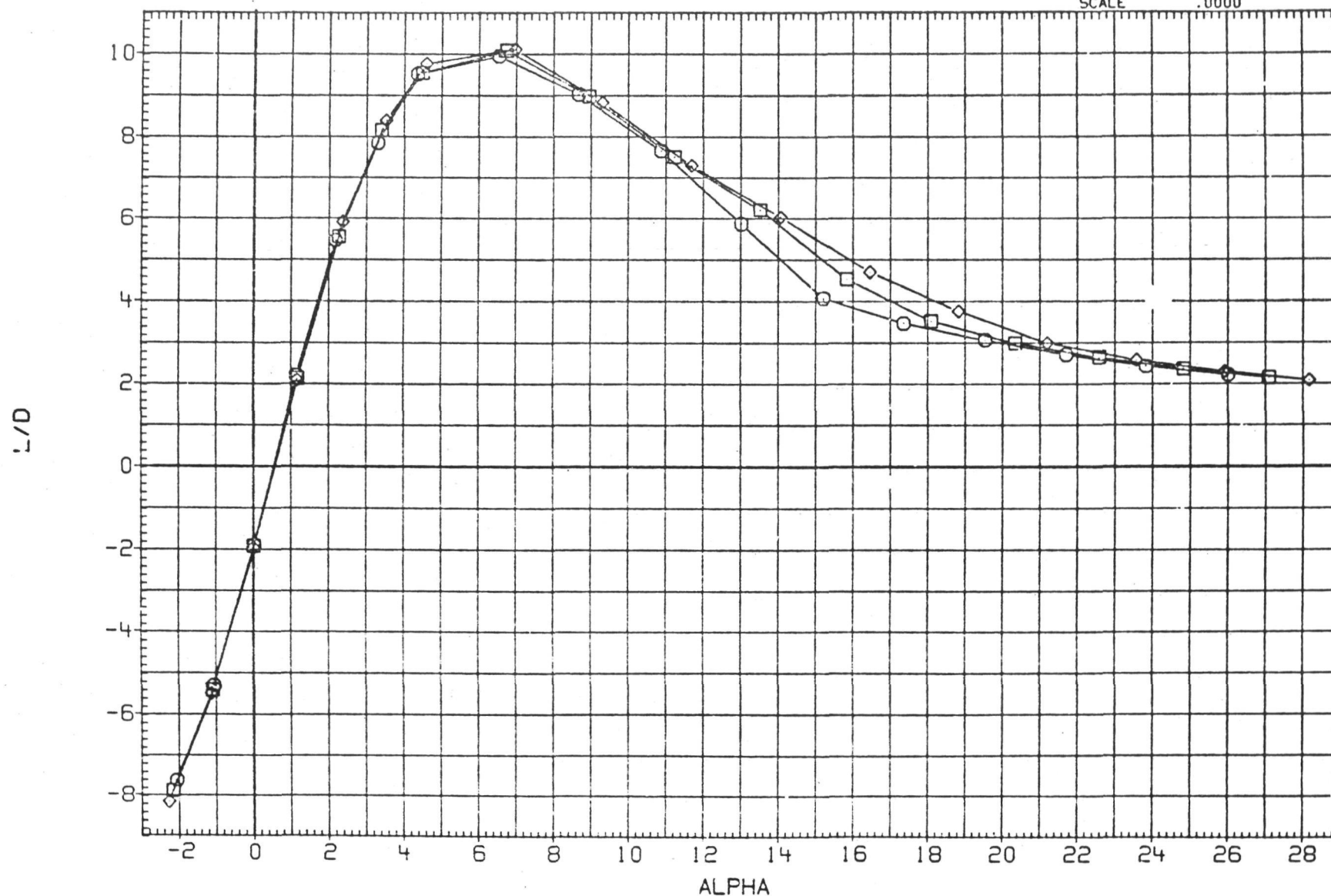


FIGURE 45. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 587

(JNC044) WING I 25-80-0012
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 6.270 LESWP 25.000
 □ 13.009 FILSWP 80.000
 ◇ 19.469 BETA TESWP 25.000
 △ 26.074 GRITNO .000 MACH .300

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0734 SQ. M.
 LREF .3220 METERS
 BREF .3331 METERS
 XMRP .3152 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

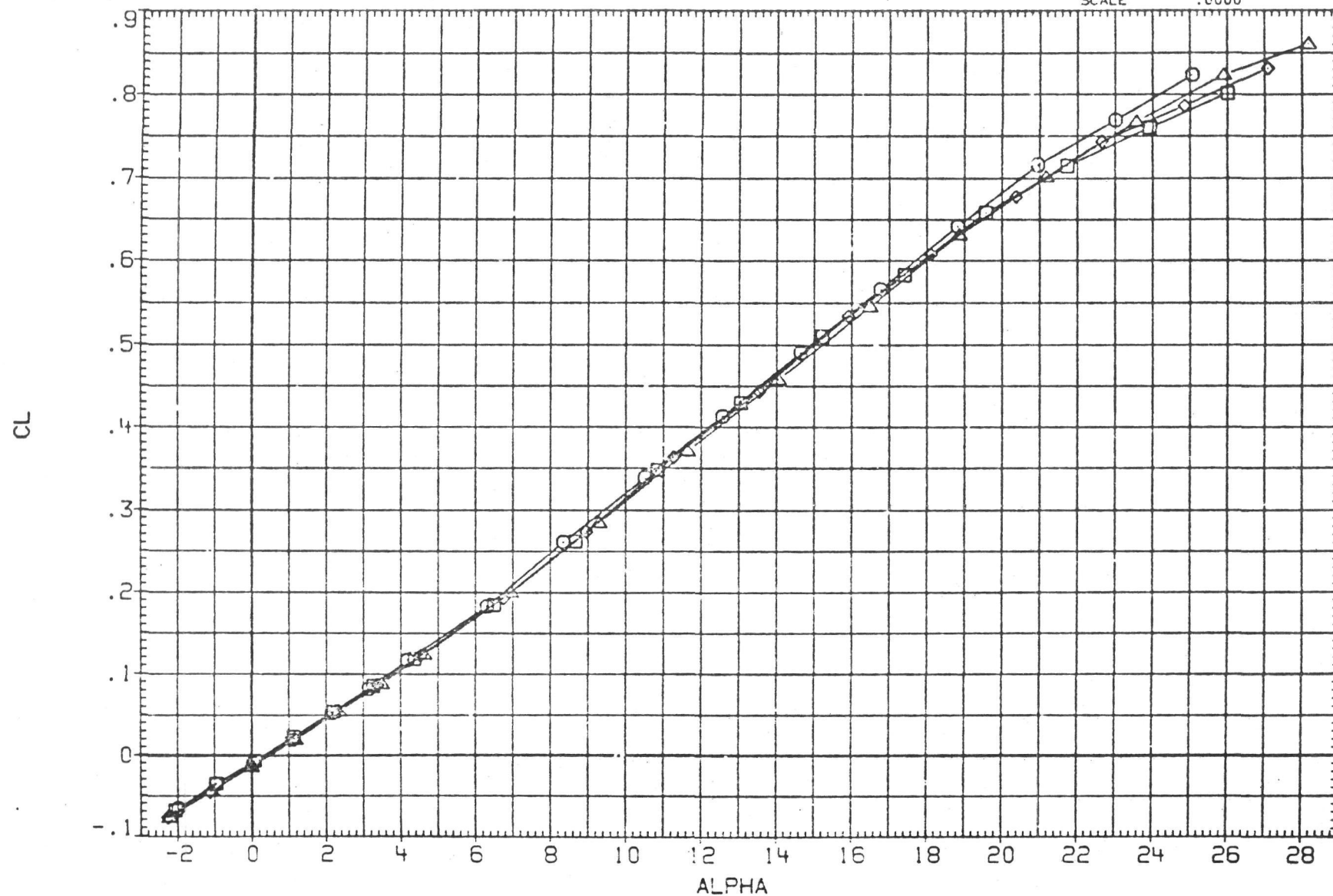


FIGURE 46. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 587 (FREE TRANS)

(JNC044) WING I 25-80-0012
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 6.270 LESWP 25.000
 □ 13.009 FILSWP 80.000
 ◇ 19.469 BETA .000
 △ 26.074 GRITNO .000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0734 SQ. M.
 LREF .3220 METERS
 BREF .3331 METERS
 XMRP .3152 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

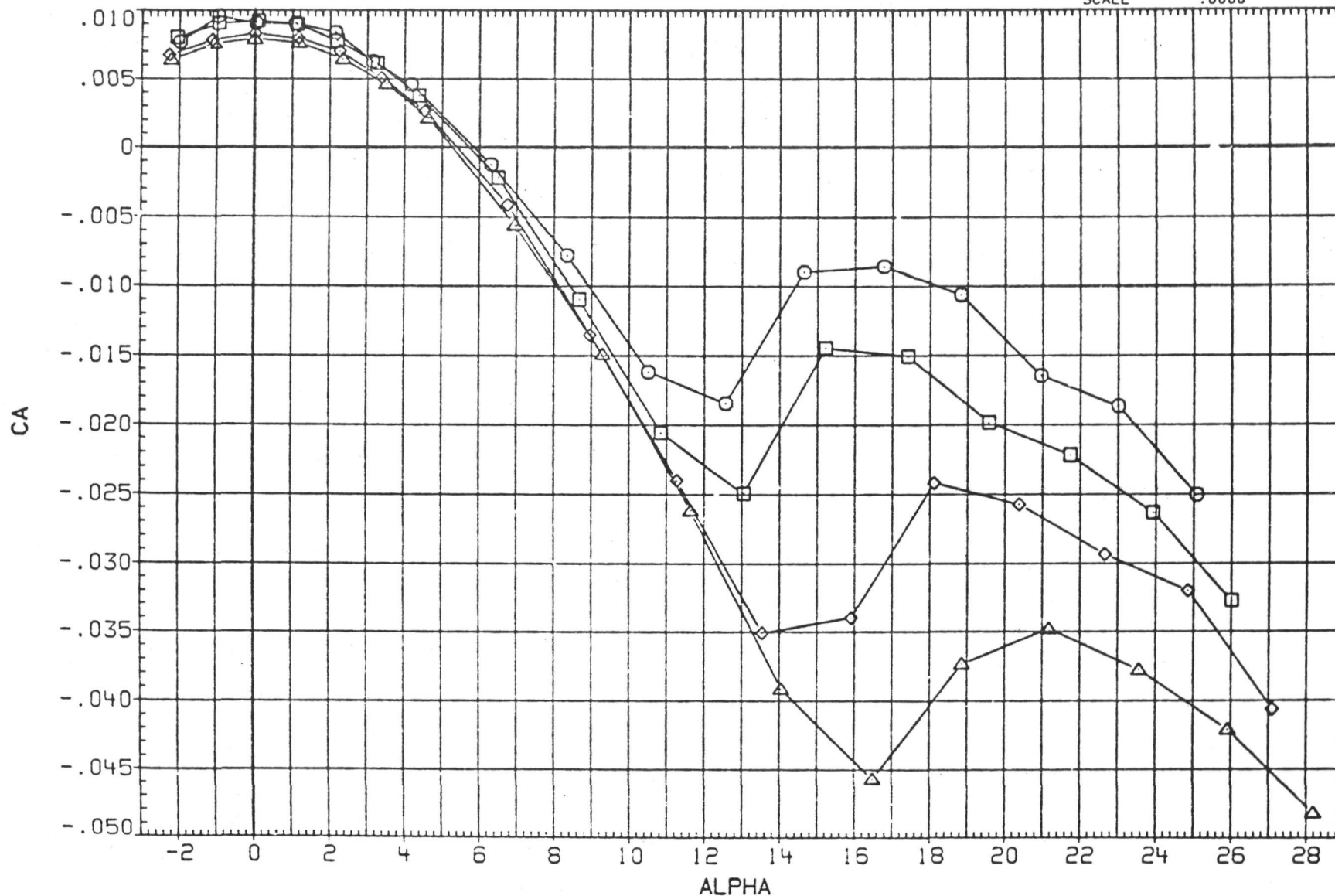


FIGURE 46. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 587 (FREE TRANS)

(JNC044) WING I 25-80-0012

SYMBOL	RN/M	T/C	PARAMETRIC VALUES	LESWP	TESWP	MACH
○	6.270	.120	80.000	25.000	25.000	.300
□	13.009	.000	80.000	25.000	25.000	.300
◇	19.469	.000	80.000	25.000	25.000	.300
△	26.074	.000	80.000	25.000	25.000	.300

AMES 12-086 (LA65)

REFERENCE INFORMATION

SYMBOL	VALUE	UNIT
SREF	.0734	SQ. M.
LREF	.3220	METERS
BREF	.3331	METERS
XMRP	.3152	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

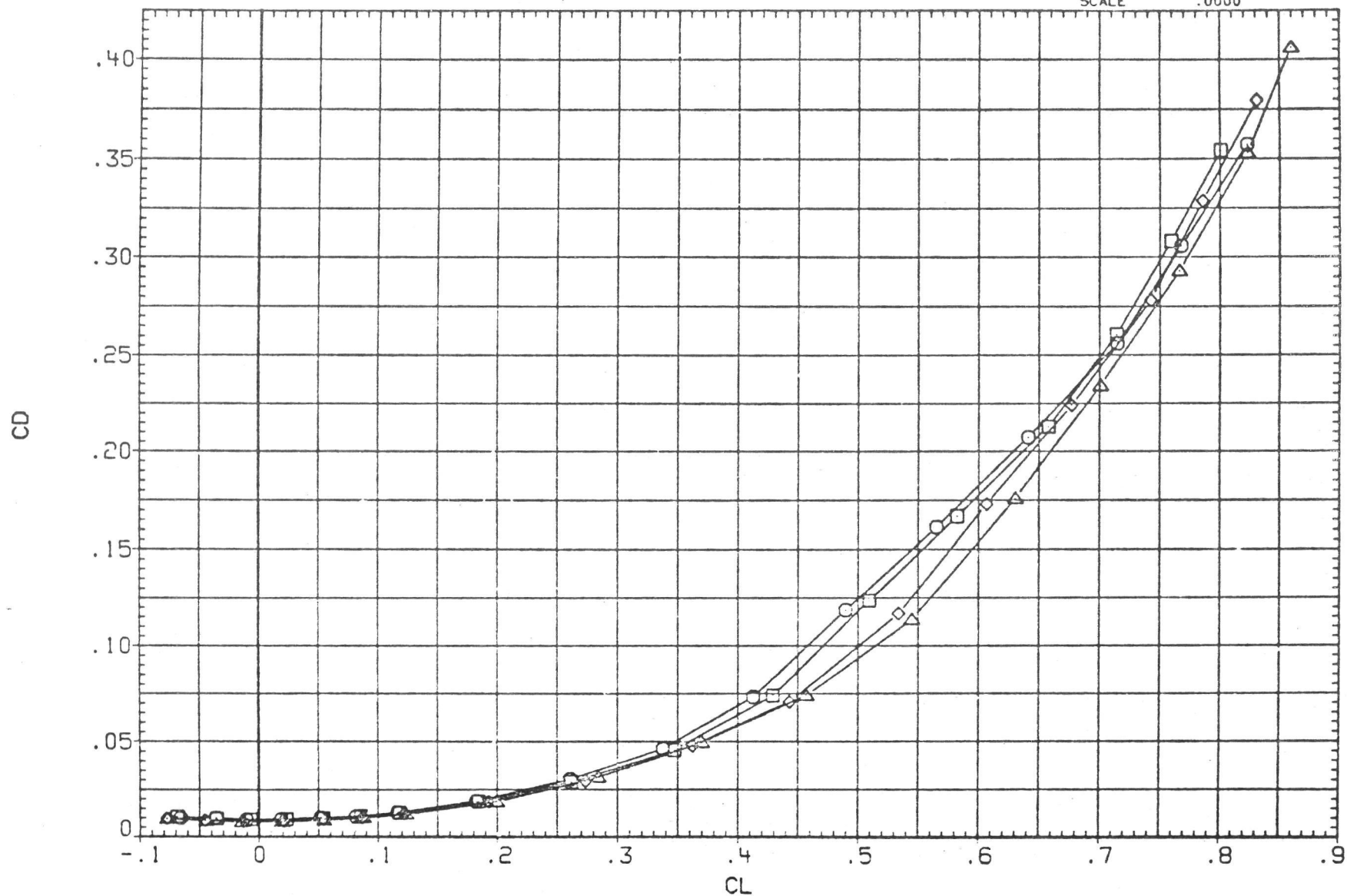


FIGURE 46. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 587 (FREE TRANS)

(JNC044) WING I 25-80-0012
 SYMBOL RN/M PARAMETRIC VALUES

○	6.270	T/C	.120	LESWP	25.000
□	13.009	FILSWP	80.000	TESWP	25.000
◇	19.469	BETA	.000	MACH	.300
△	26.074	GRITNO	.000		

AMES 12-086 (LA65)

REFERENCE INFORMATION

SREF	.0734	SQ. M.
LREF	.3220	METERS
BREF	.3331	M. XB
XMRP	.3152	M. YB
YMRP	.0000	M. ZB
ZMRP	.0000	
SCALE	.0000	

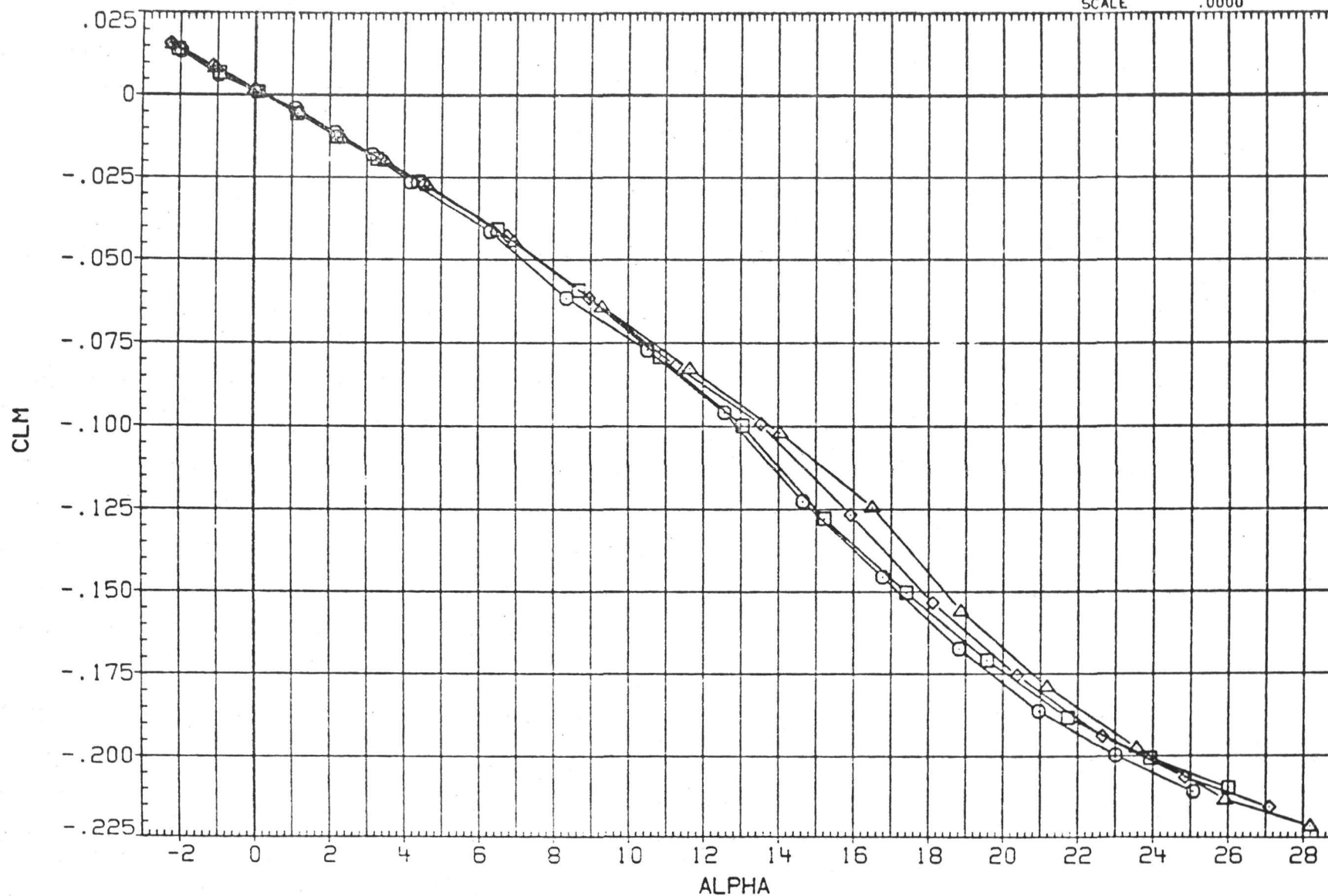


FIGURE 46. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 587 (FREE TRANS)

SYMBOL

RN/M

PARAMETRIC VALUES

○
□
◇
△6.270
13.009
19.469
26.074T/C
FILSWP
BETA
GRITNO.120
80.000
.000
.000LESWP
TESWP
MACH25.000
25.000
.300

SREF	.0734	SQ. M.
LREF	.3220	METERS
BREF	.3331	METERS
XMRP	.3152	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

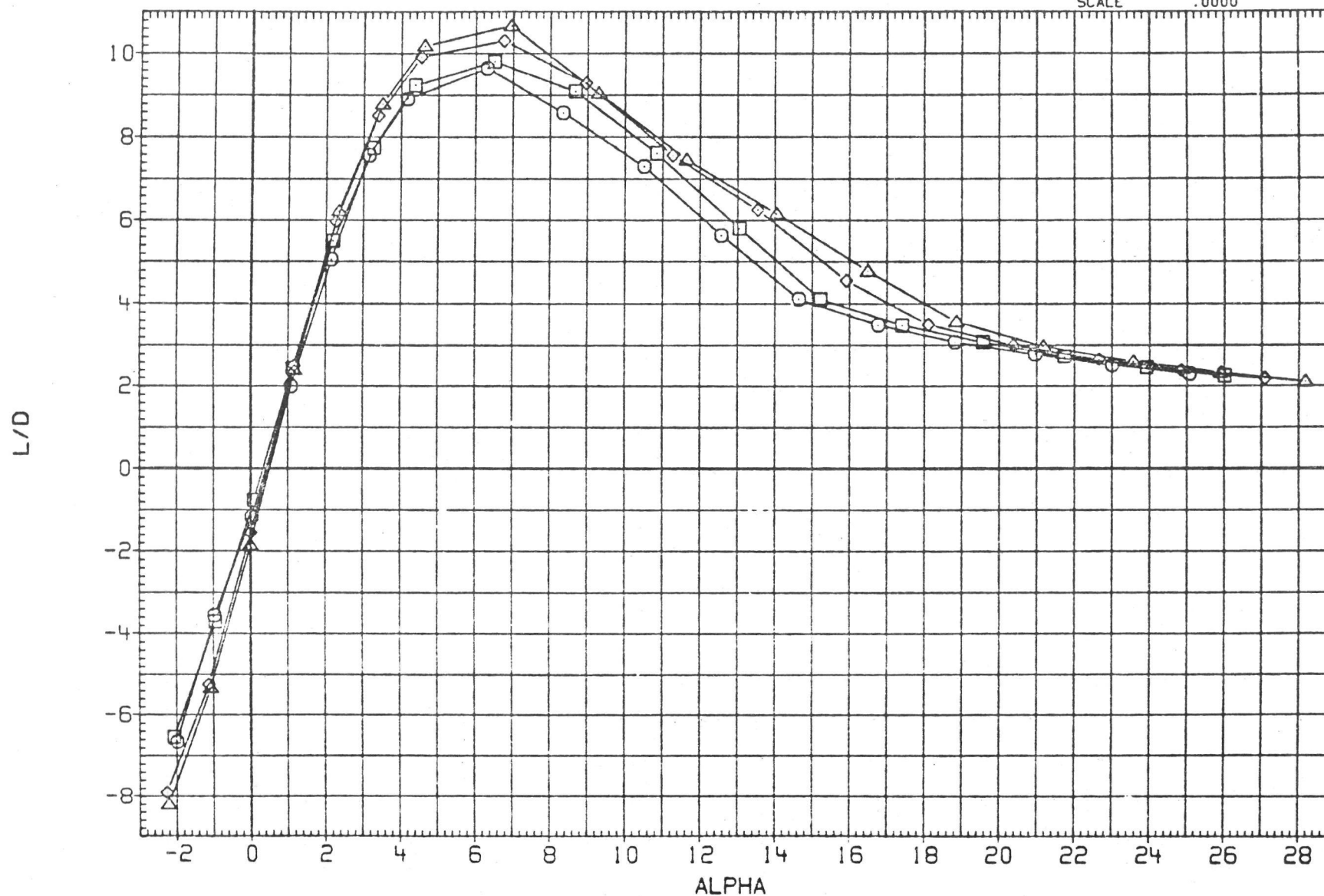


FIGURE 46. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 587 (FREE TRANS)

(JNC038) WING I 25-60-0012

AMES 12-086 (LA65)

SYMBOL

RN/M

PARAMETRIC VALUES

○

13.072

T/C

.120

LESWP

25.000

□

19.716

FILSWP

60.000

TESWP

25.000

◇

26.300

BETA

.000

MACH

.300

GRITNO

120.000

REFERENCE INFORMATION

SREF	.0549	SQ. M.
LREF	.1936	METERS
BREF	.3331	METERS
XMRP	.1366	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

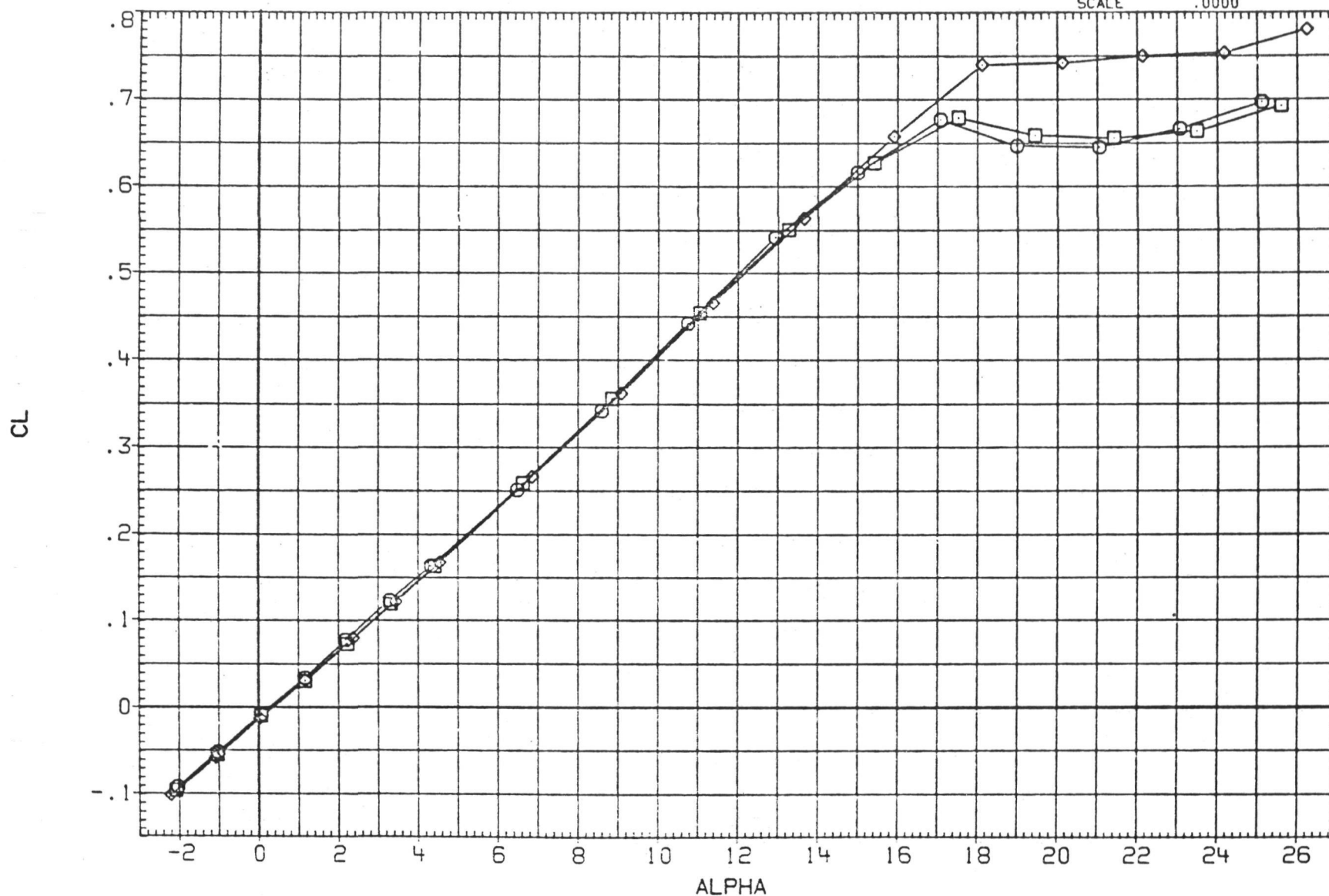


FIGURE 47. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 586

(JNC038) WING I 25-60-0012
 SYMBOL RN/M PARAMETRIC VALUES
 ○ 13.072 T/C .120 LESWP 25.000
 □ 19.716 FILSWP 60.000 TESWP 25.000
 ◇ 26.300 BETA .000 MACH .300
 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0549 SQ. M.
 LREF .1936 METERS
 BREF .3331 METERS
 XMRP .1366 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

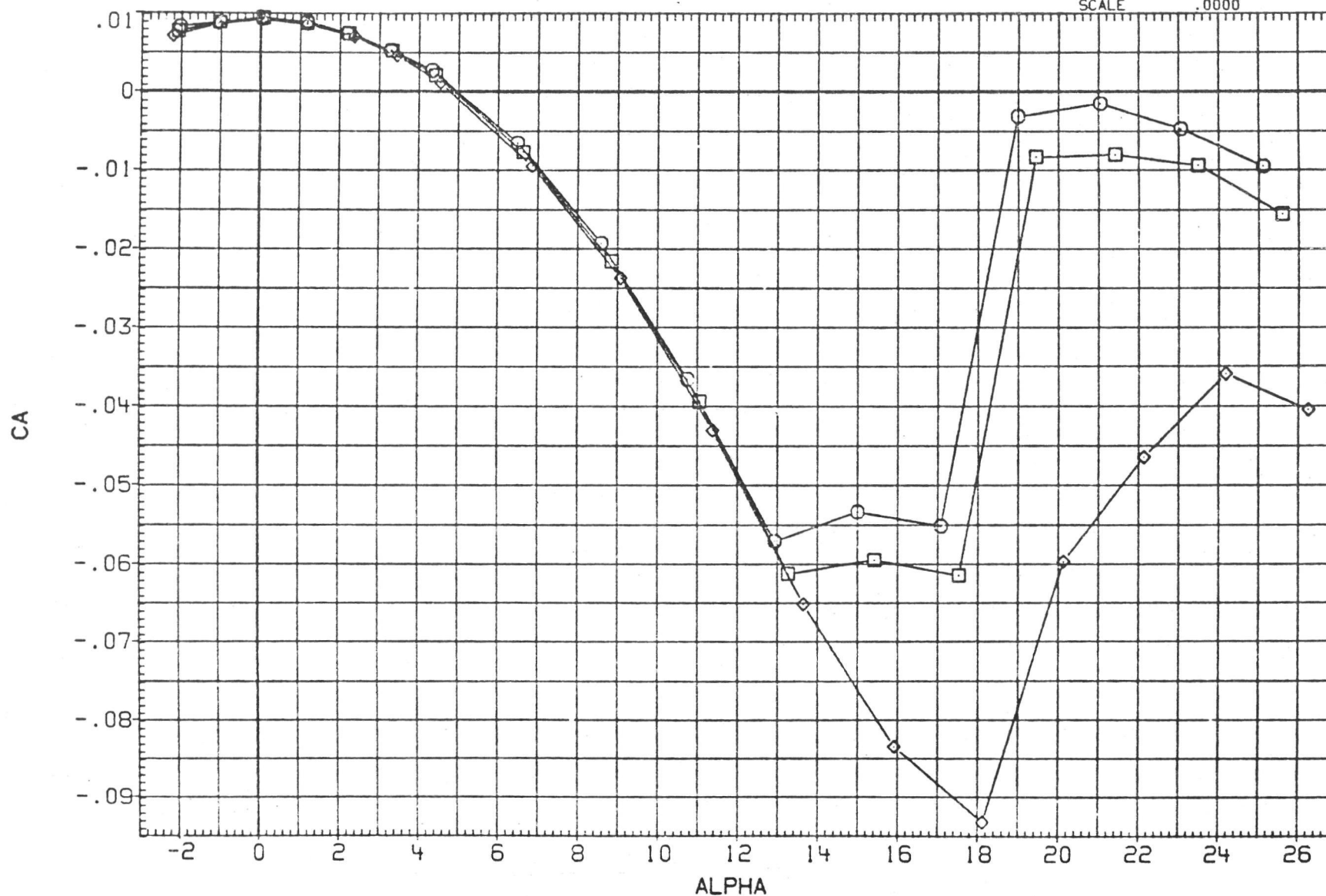


FIGURE 47. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 586

(JNC038) WING I 25-60-0012

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES			
○	13.072	T/C	.120	LESWP	25.000
□	19.716	FILSWP	60.000	TESWP	25.000
◇	26.300	BETA	.000	MACH	.300
		GRITNO	120.000		

REFERENCE INFORMATION	
SREF	.0549 SQ. M.
LREF	.1936 METERS
SREF	.3331 METERS
XMRP	.1366 M. XB
YMRP	.0000 M. YB
ZMRP	.0000 M. ZB
SCALE	.0000

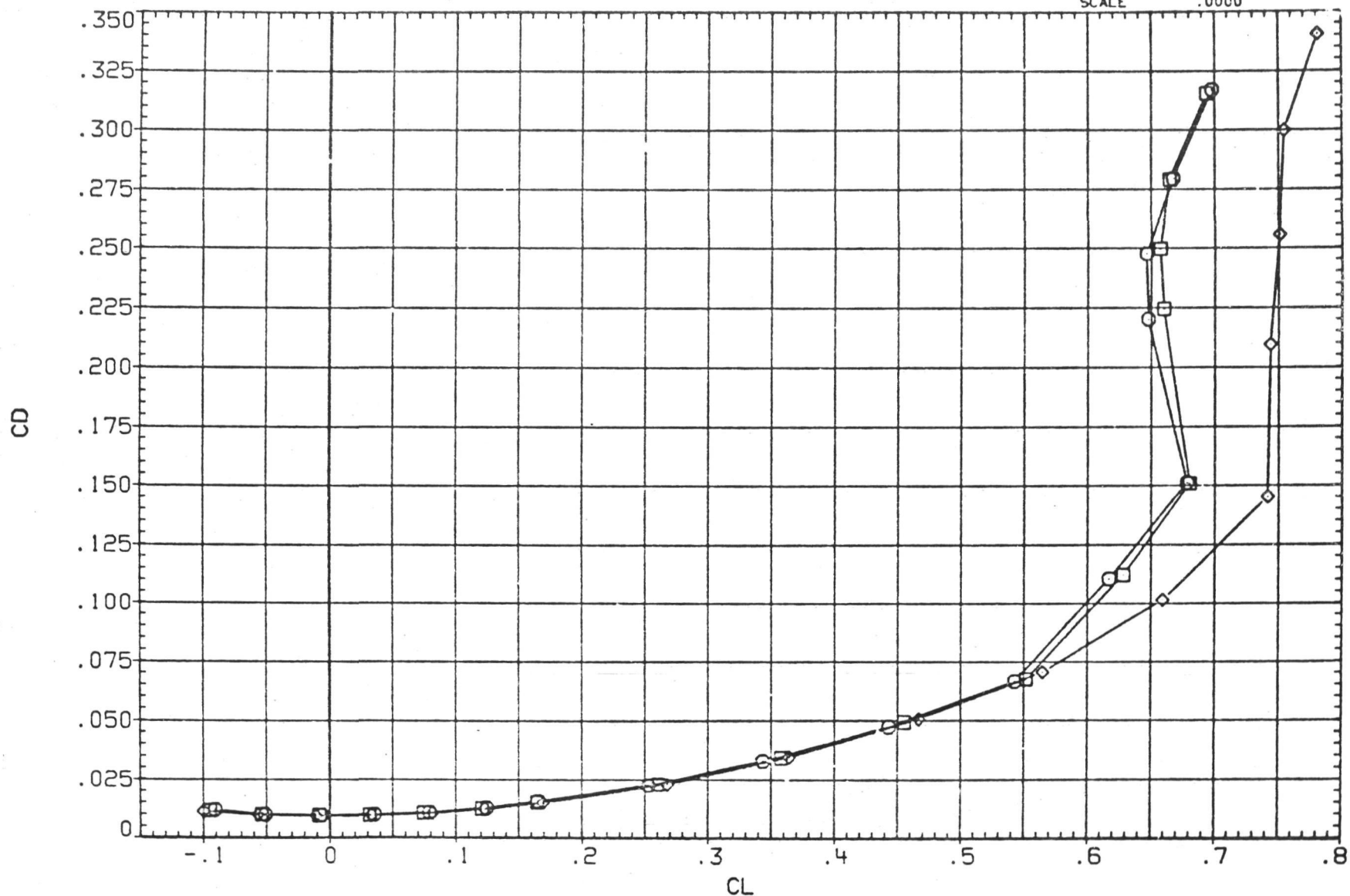


FIGURE 47. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 586

(JNC038) WING I 25-60-0012
 SYMBOL RN/M T/C LESWP TESWP MACH
 ○ 13.072 .120 25.000
 □ 19.716 60.000 25.000
 ◇ 26.300 .000 300
 BETA GRITNO
 .000 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0549 SO. M.
 LREF .1936 METERS
 BREF .3331 METERS
 XMRP .1366 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

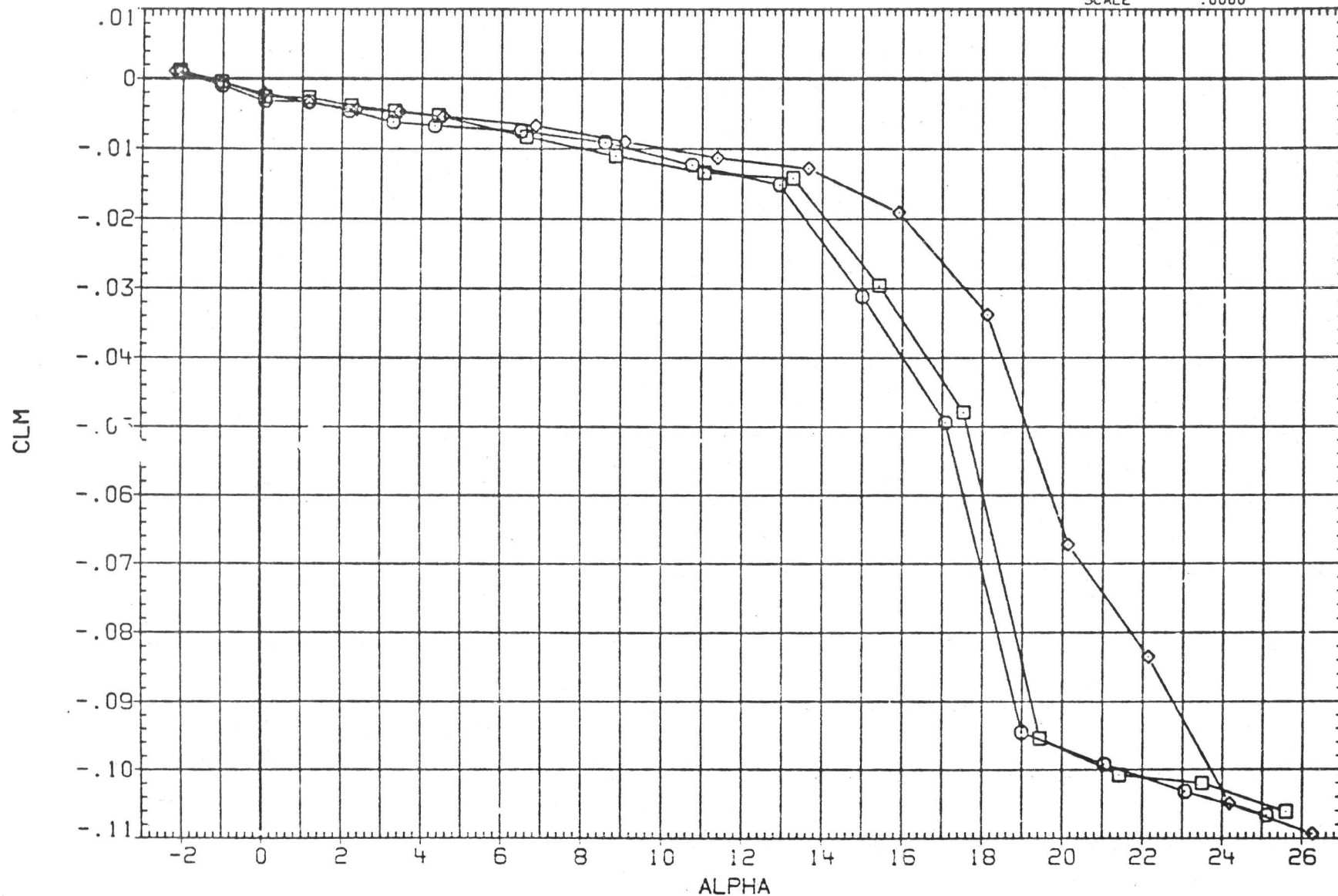


FIGURE 47. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 586

(JNC038) WING I 25-60-0012

AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES	LESWP	25.000
○	13.072	FILSWP	.120	TESWP	25.000
□	19.716	BETA	.000	MACH	.300
◇	26.300	GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0549	SQ. M.
LREF	.1936	METERS
BREF	.3331	METERS
XMRP	.1366	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

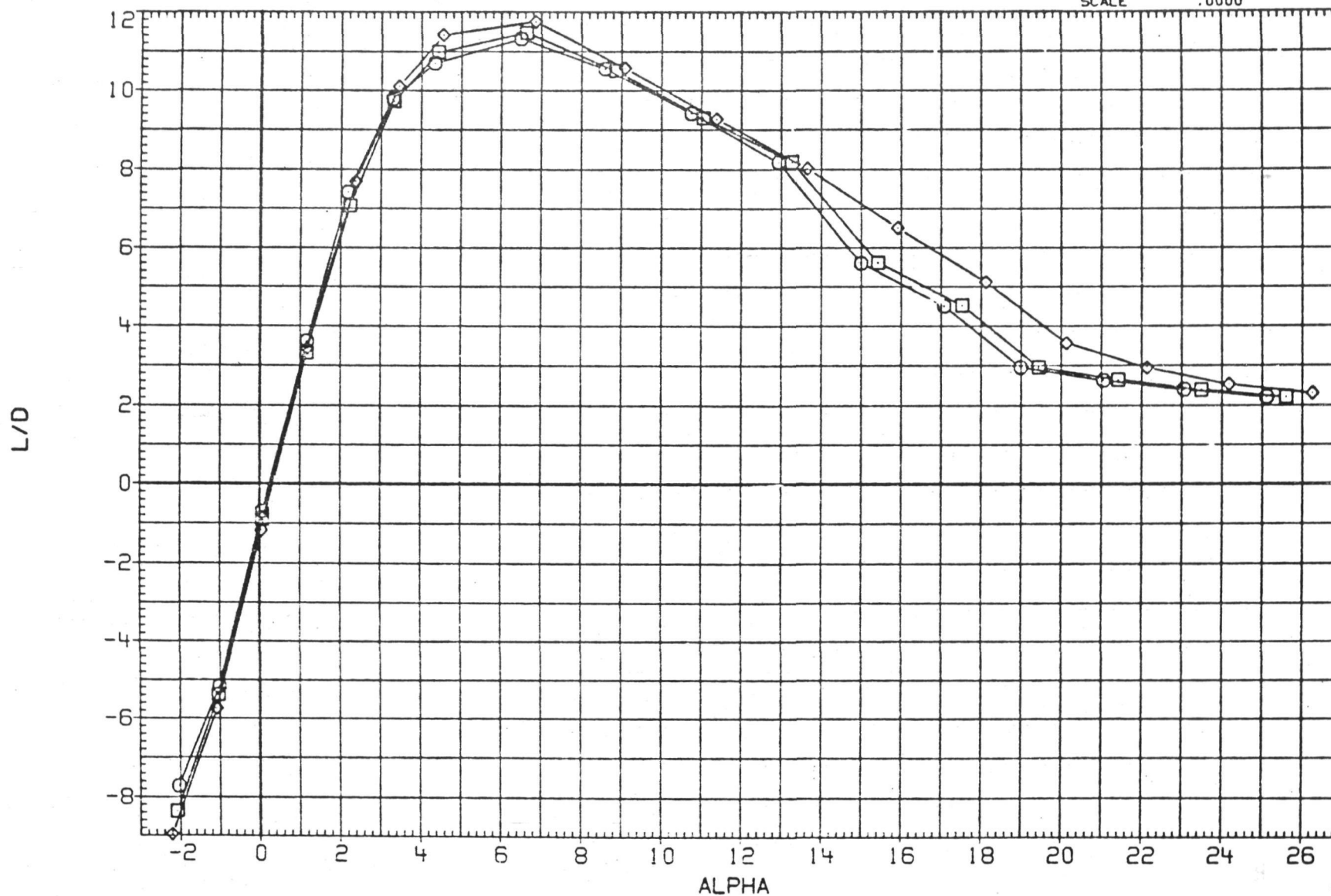


FIGURE 47. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 586

(JNC036) WING I 25-25-0012
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 6.477 .120 LESWP 25.000
 □ 13.072 FILSWP 25.000 TESWP 25.000
 ◇ 19.716 BETA .000 MACH .300
 △ 26.261 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0490 SQ. M.
 LREF .1591 METERS
 BREF .3331 METERS
 XMRP .0722 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

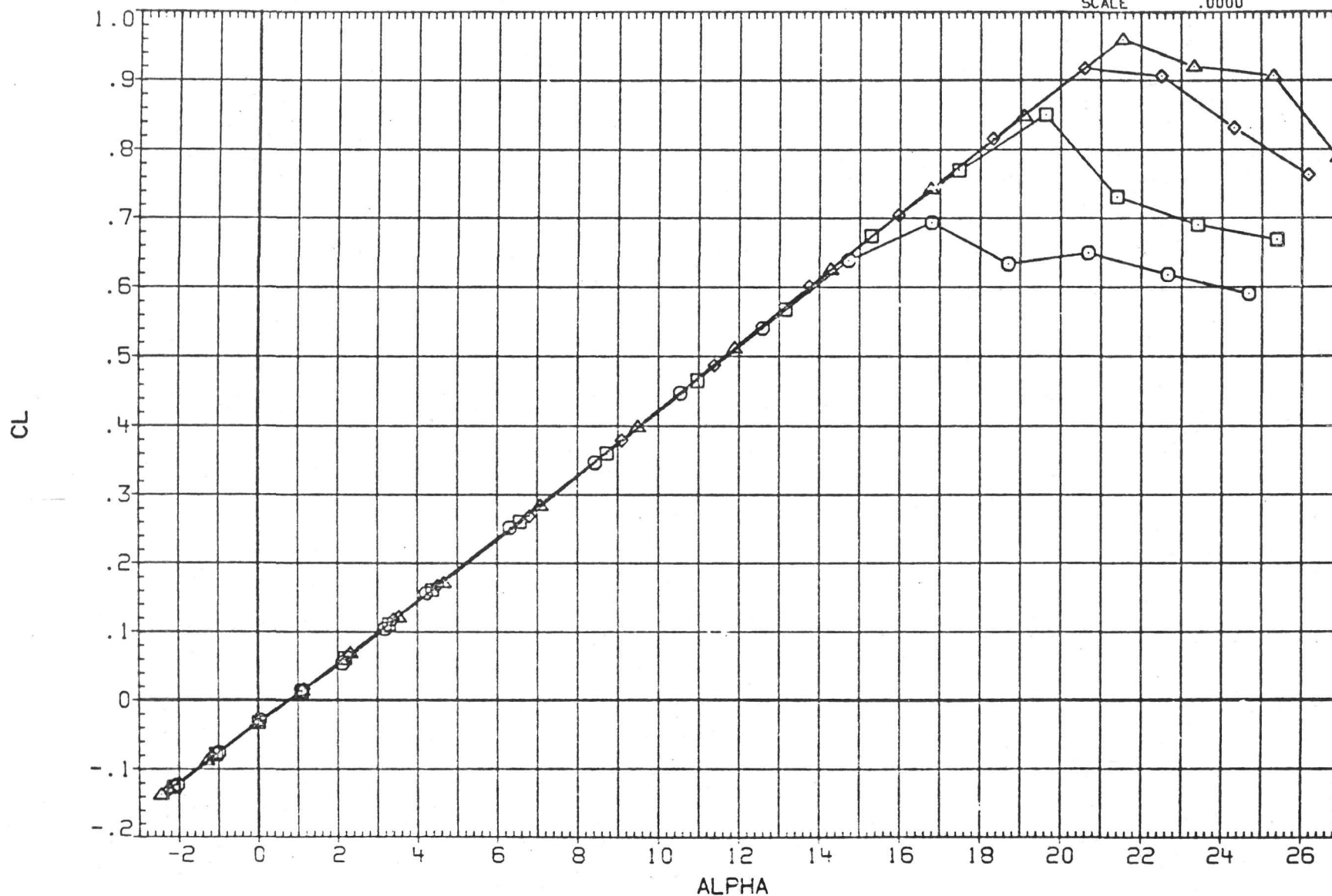


FIGURE 48. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 585

(JNC036) WING I 25-25-0012

AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES		
○	6.477	.120	LESWP	25.000	
□	13.072	FILSWP	25.000	TESWP	25.000
◇	19.716	BETA	.000	MACH	.300
△	26.261	GRITNO	120.000		

REFERENCE INFORMATION

SREF	.0490	SQ. M.
LREF	.1591	METERS
BREF	.3331	METERS
XMRP	.0722	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

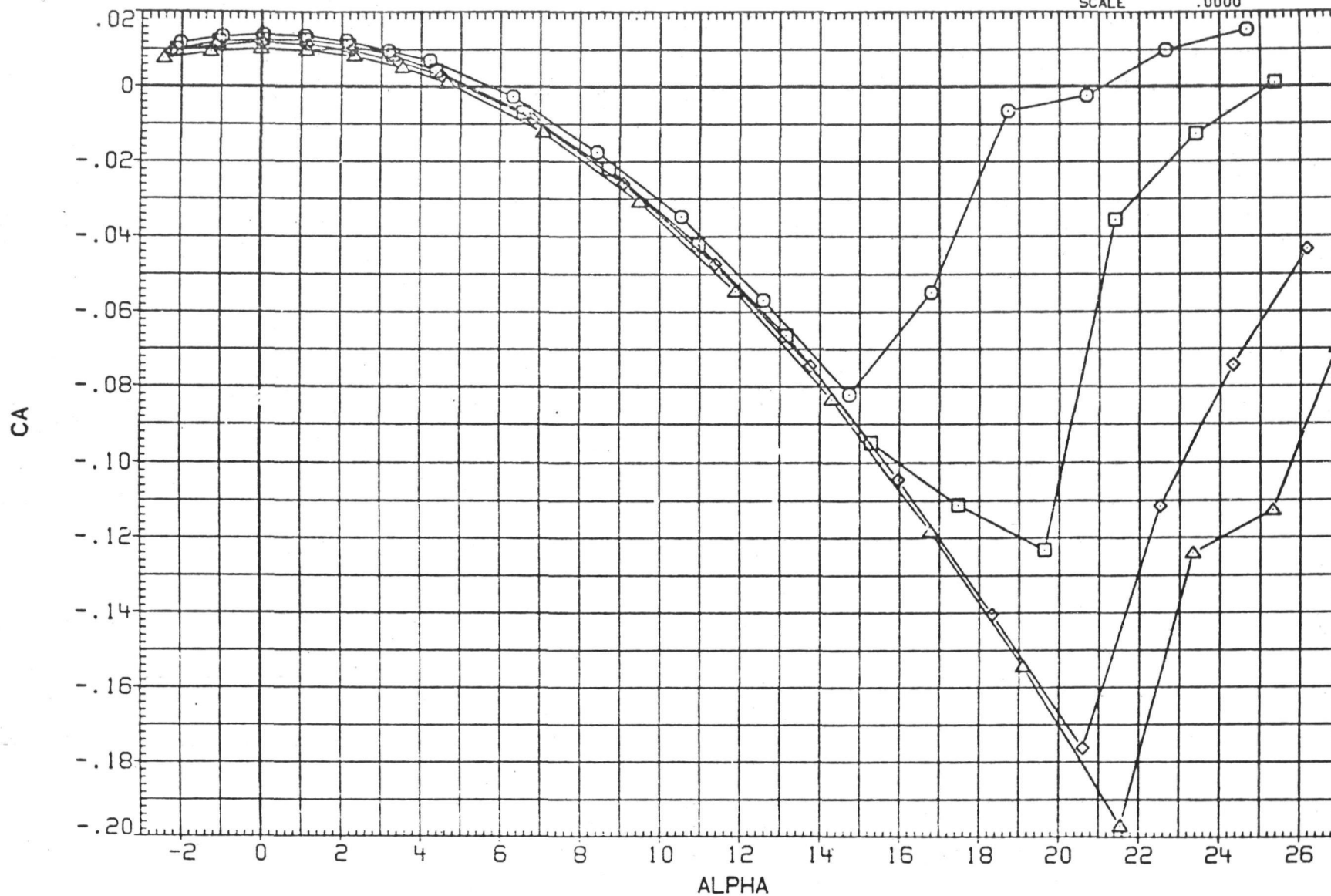


FIGURE 48. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 585

(JNC036) WING I 25-25-0012
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 6.477 .120 LESWP 25.000
 □ 13.072 FILSWP 25.000 TESWP 25.000
 ◇ 19.716 BETA .000 MACH .300
 △ 26.261 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0490 SQ. M.
 LREF .1591 METERS
 BREF .3331 METERS
 XMRP .0722 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

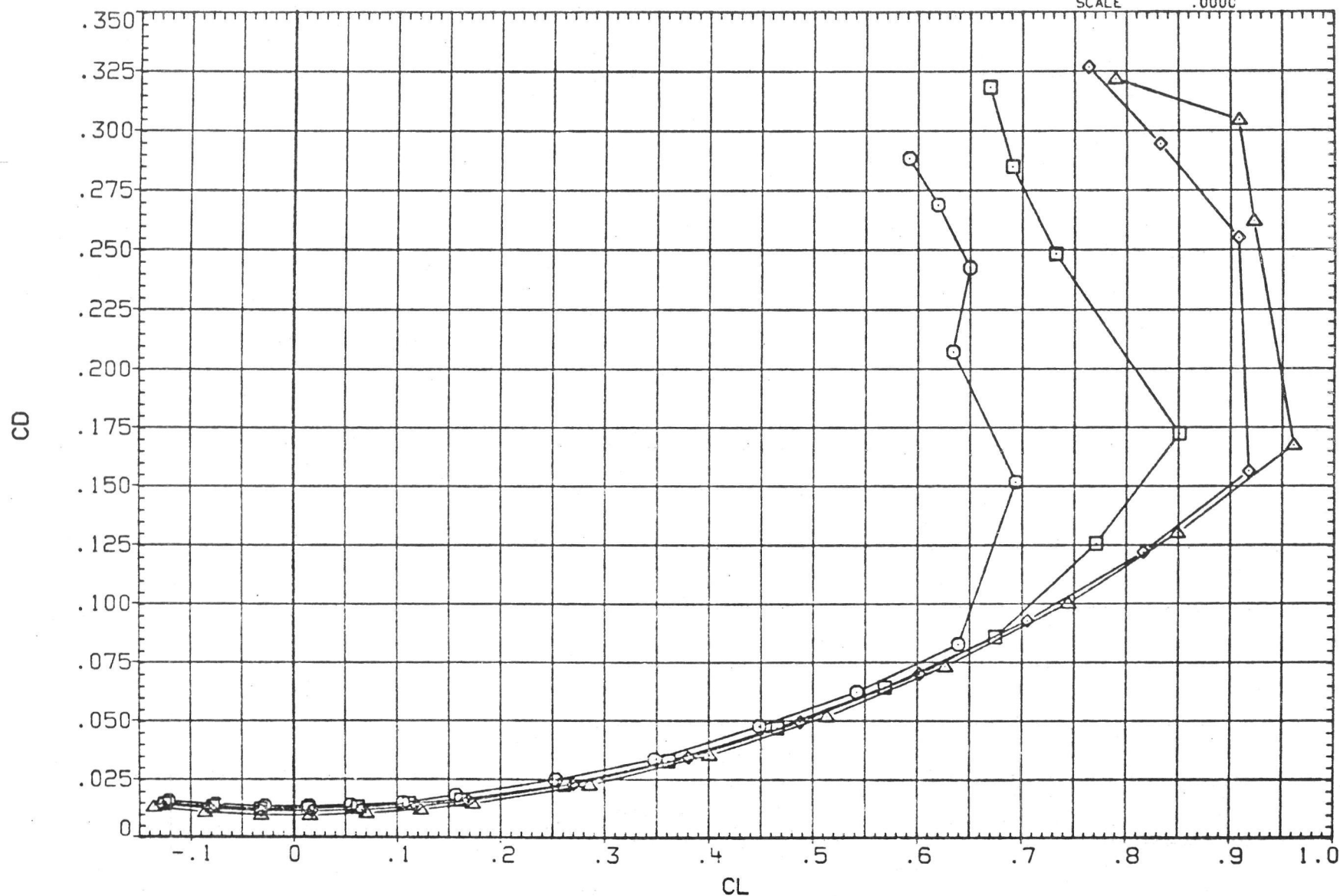


FIGURE 48. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 585

(JNC036) WING I 25-25-0012

AMES 12-086 (LA65)

REFERENCE INFORMATION

SYMBOL	RN/M	PARAMETRIC VALUES			
○	6.477	T/C	.120	LESWP	25.000
□	13.072	FILSWP	25.000	TESWP	25.000
◇	19.716	BETA	.000	MACH	.300
△	26.261	GRITNO	120.000		

SREF	.0490	SQ. M.
LREF	.1591	METERS
BREF	.3331	METERS
XMRP	.0722	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

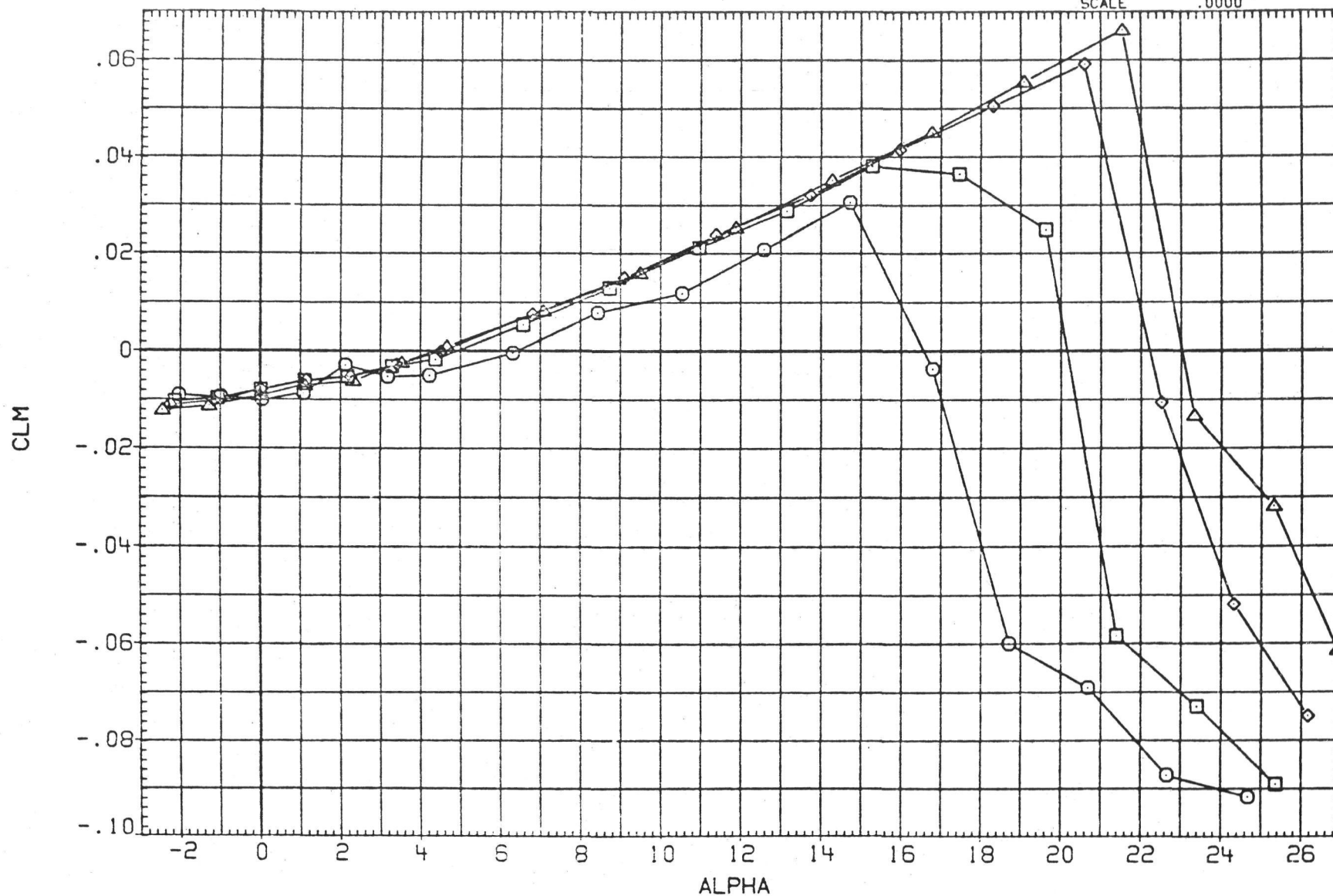


FIGURE 48. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 585

(JNC036) WING I 25-25-0012
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 6.477 .120 LESWP 25.000
 □ 13.072 FILSWP 25.000 TESWP 25.000
 ◇ 19.716 BETA .000 MACH .300
 △ 26.261 GRITNO 120.000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0490 SQ. M.
 LREF .1591 METERS
 BREF .3331 METERS
 XMRP .0722 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

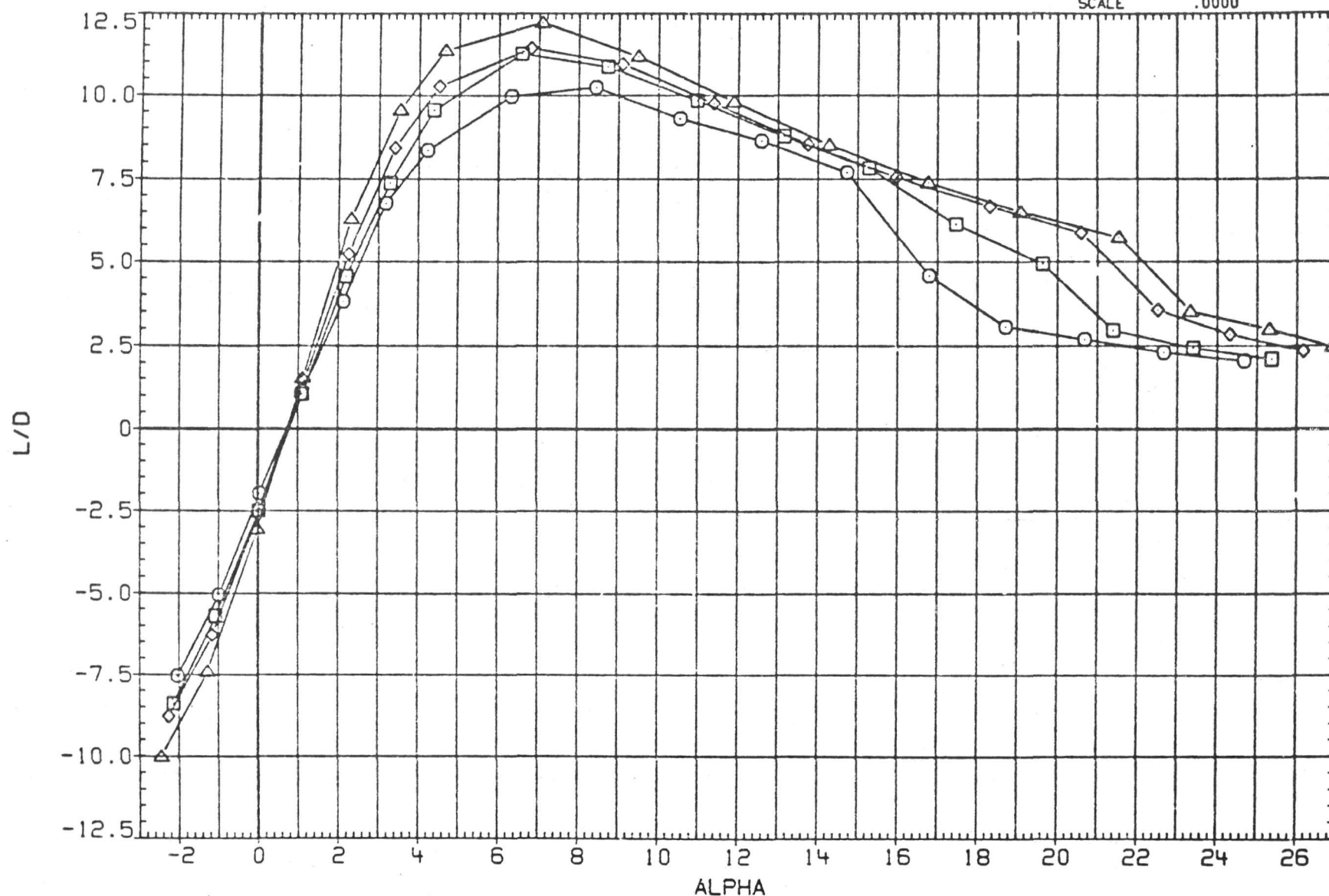


FIGURE 48. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 585

(JNC043) WING I 25-25-0012

AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES		
○	6.195		.120	LESWP	25.000
□	13.062	FILSWP	25.000	TESWP	25.000
◇	19.597	BETA	.000	MACH	.300
△	26.166	GRITNO	.000		

REFERENCE INFORMATION

SREF	.0490	SQ. M.
LREF	.1591	METERS
BREF	.3331	FEET
XMRP	.0722	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

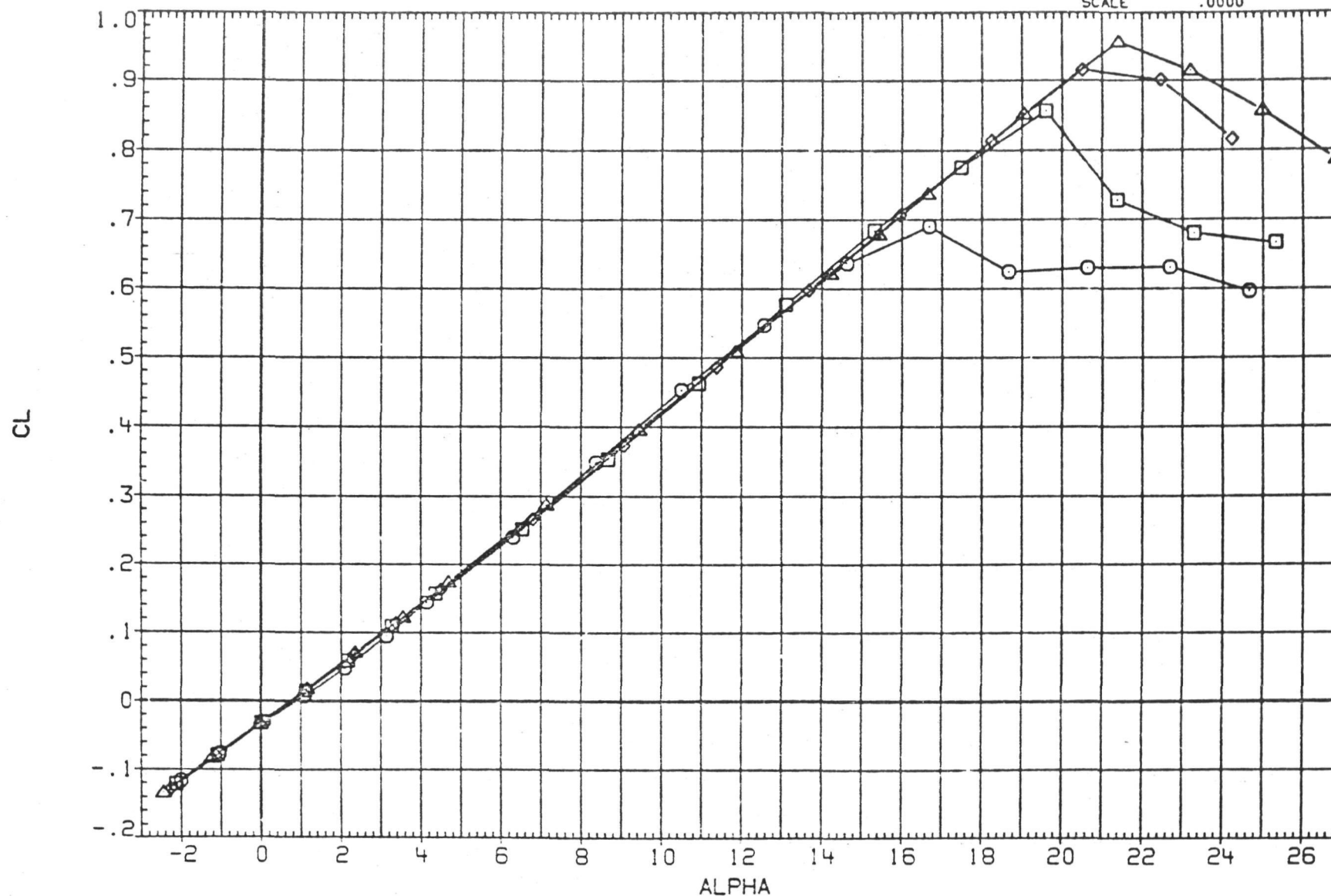


FIGURE 49. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 585 (FREE TRANS)

(JNC043) WING I 25-25-0012
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 6.195 .120 LESWP 25.000
 □ 13.062 FILSWP 25.000 TESWP 25.000
 ◇ 19.597 BETA .000 MACH .300
 △ 26.166 GRITNO .000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0490 SQ. M.
 LREF .1591 METERS
 BREF .3331 METERS
 XMRP .0722 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

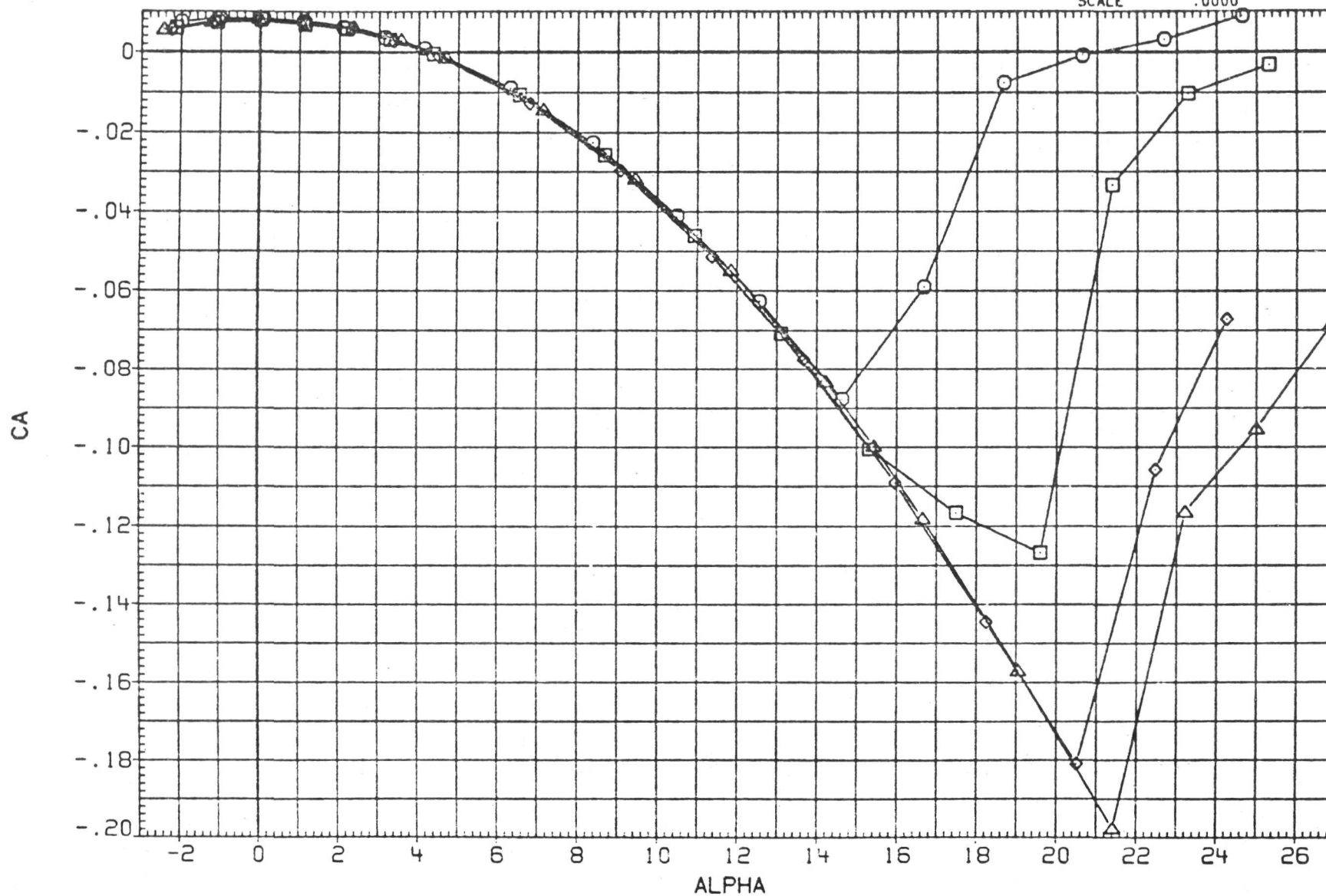


FIGURE 49. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 585 (FREE TRANS)

(JNC043) WING I 25-25-0012
 SYMBOL RN/M T/C PARAMETRIC VALUES
 ○ 6.195 LESWP 25.000
 □ 13.062 FILSWP 25.000
 ◇ 19.597 BETA .000
 △ 25.166 GRITNO .000

AMES 12-086 (LA65)

REFERENCE INFORMATION
 SREF .0490 SQ. M.
 LREF .1591 METERS
 BREF .3331 METERS
 XMRP .0722 M. XB
 YMRP .0000 M. YB
 ZMRP .0000 M. ZB
 SCALE .0000

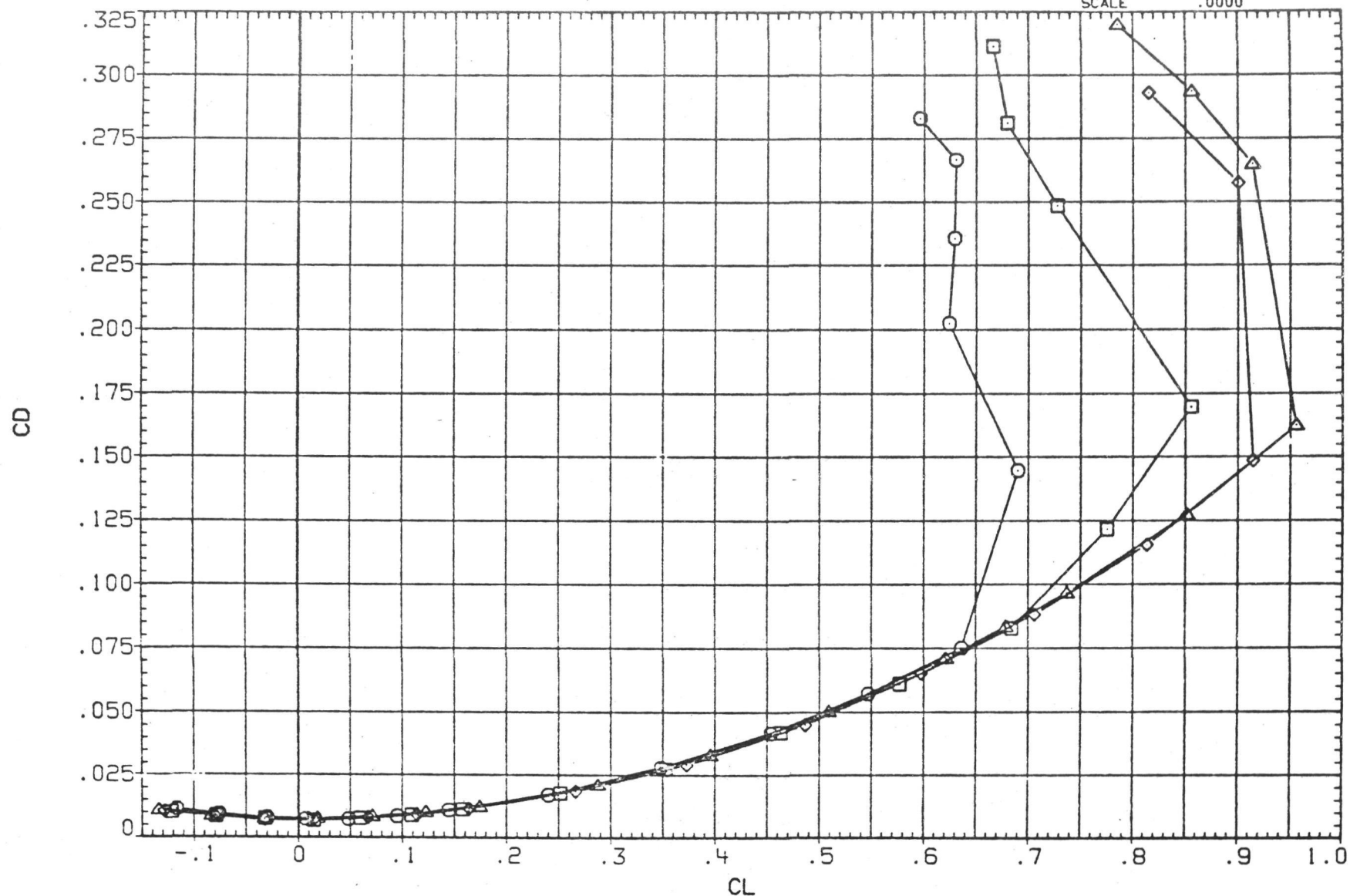


FIGURE 49. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 585 (FREE TRANS)

(JNC043)

WING I

25-25-0012

AMES 12-086 (LA65)

SYMBOL

RN/M

PARAMETRIC VALUES

○
□
◇
△

6.195
13.062
19.597
26.166

T/C
FILSWP
BETA
GRITNO

.120
25.000
.000
.000

LESWP
TESWP
MACH

25.000
25.000
.300

REFERENCE INFORMATION

SREF	.0490	SO. M.
LREF	.1591	METERS
BREF	.3331	METERS
XMRP	.0722	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

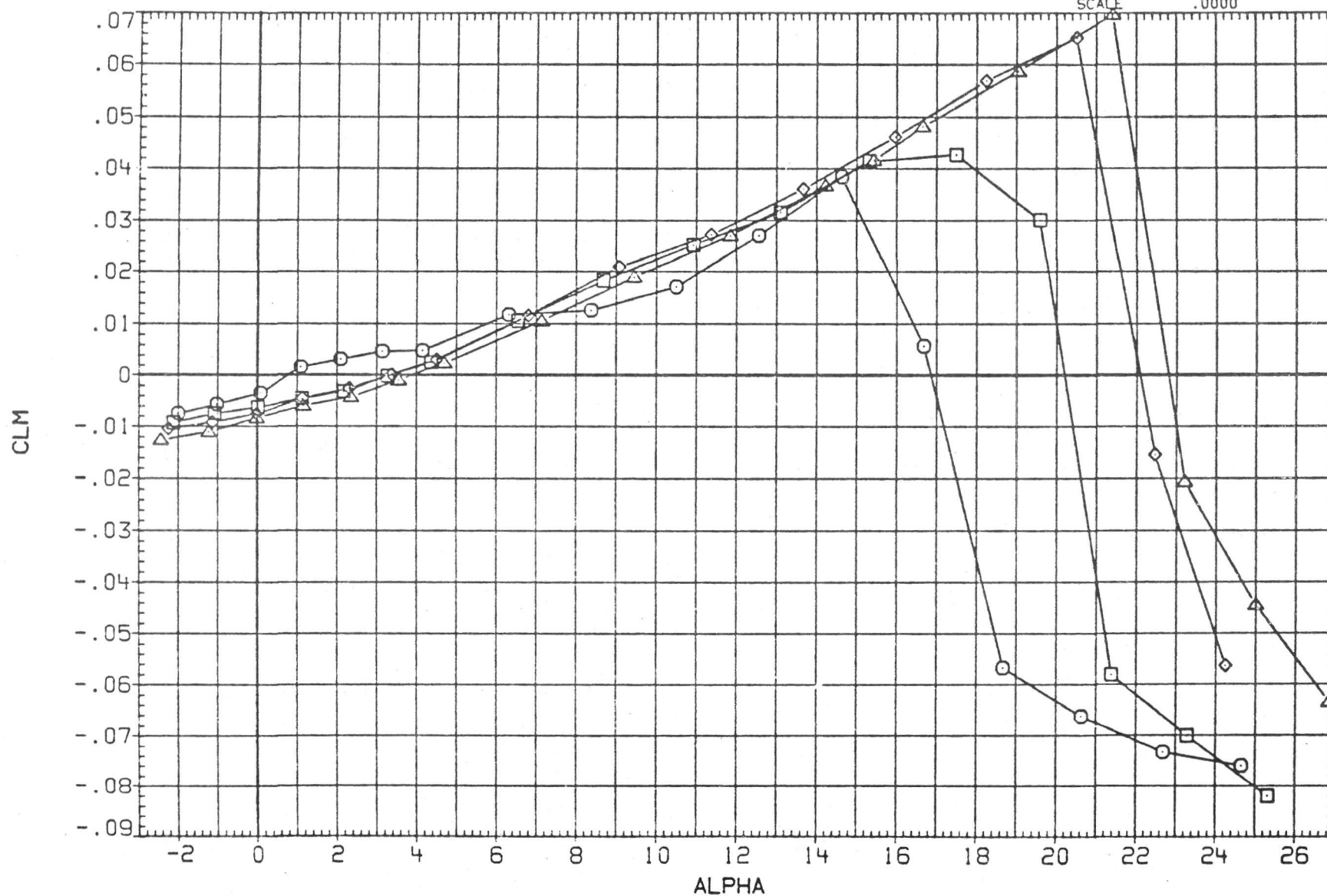


FIGURE 49. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 585 (FREE TRANS)

(JNC043) WING I 25-25-0012

AMES 12-086 (LA65)

SYMBOL	RN/M	T/C	PARAMETRIC VALUES	LESWP	25.000
○	6.195	FILSWP	.120	25.000	25.000
□	13.062	BETA	.000	MACH	.300
◇	19.597	GRITNO	.000		
△	26.166				

REFERENCE INFORMATION

SREF	.0490	SQ. M.
LREF	.1591	METERS
BREF	.3331	METERS
XMRP	.0722	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

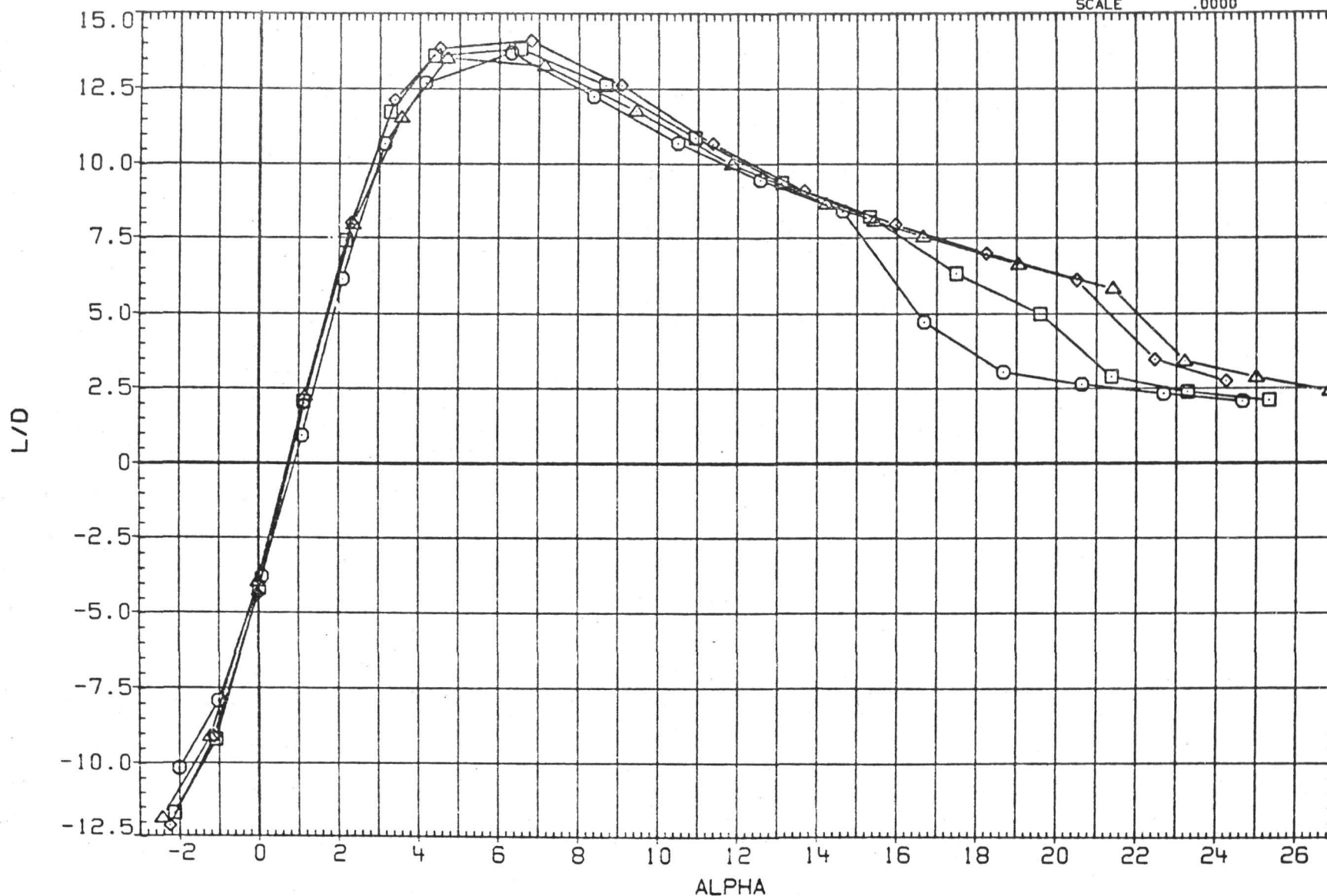


FIGURE 49. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 585 (FREE TRANS)

SYMBOL

RN/M

PARAMETRIC VALUES

○
□
◇
△6.280
13.049
19.512
25.969T/C
FILSWP
BETA
GRITNO.080
25.000
.000
.000LESWP
TESWP
MACH25.000
25.000
.300

SREF	.0490	SQ. M.
LREF	.1591	METERS
BRCF	.3331	METERS
XMRP	.0722	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

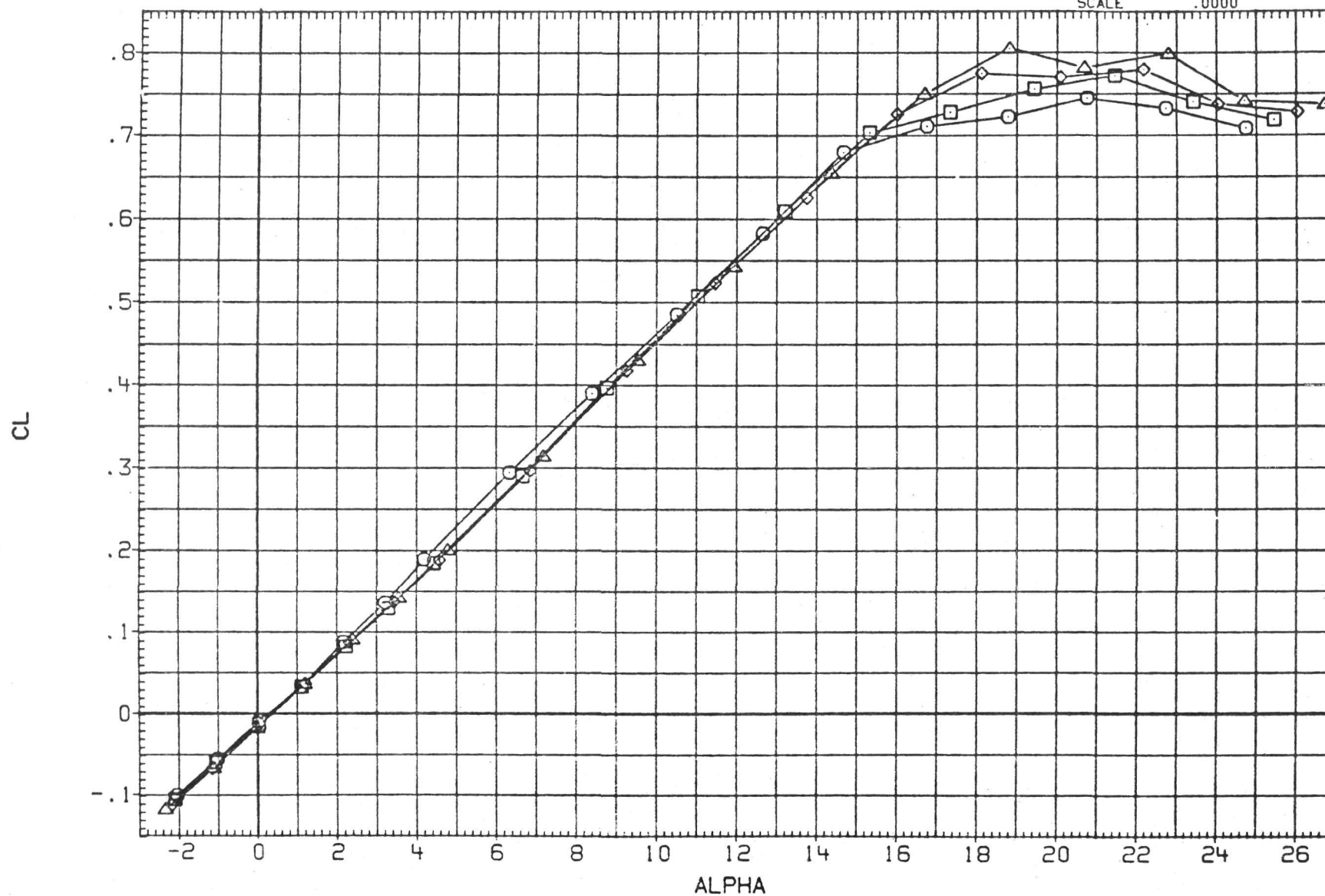


FIGURE 50. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 125 (FREE TRANS)

(JNC045) WING I 25-25-0008

AMES 12-086 (LA65)

SYMBOL	RN/M	PARAMETRIC VALUES
○	6.280	T/C .080 LESWP 25.000
□	13.049	FILSWP 25.000 TESWP 25.000
◇	19.512	BETA .000 MACH .300
△	25.969	GRITNO .000

REFERENCE INFORMATION	
SREF	.0490 SQ. M.
LREF	.1591 METERS
BREF	.3331 METERS
XMRP	.0722 M. XB
YMRP	.0000 M. YB
ZMRP	.0000 M. ZB
SCALE	.0000

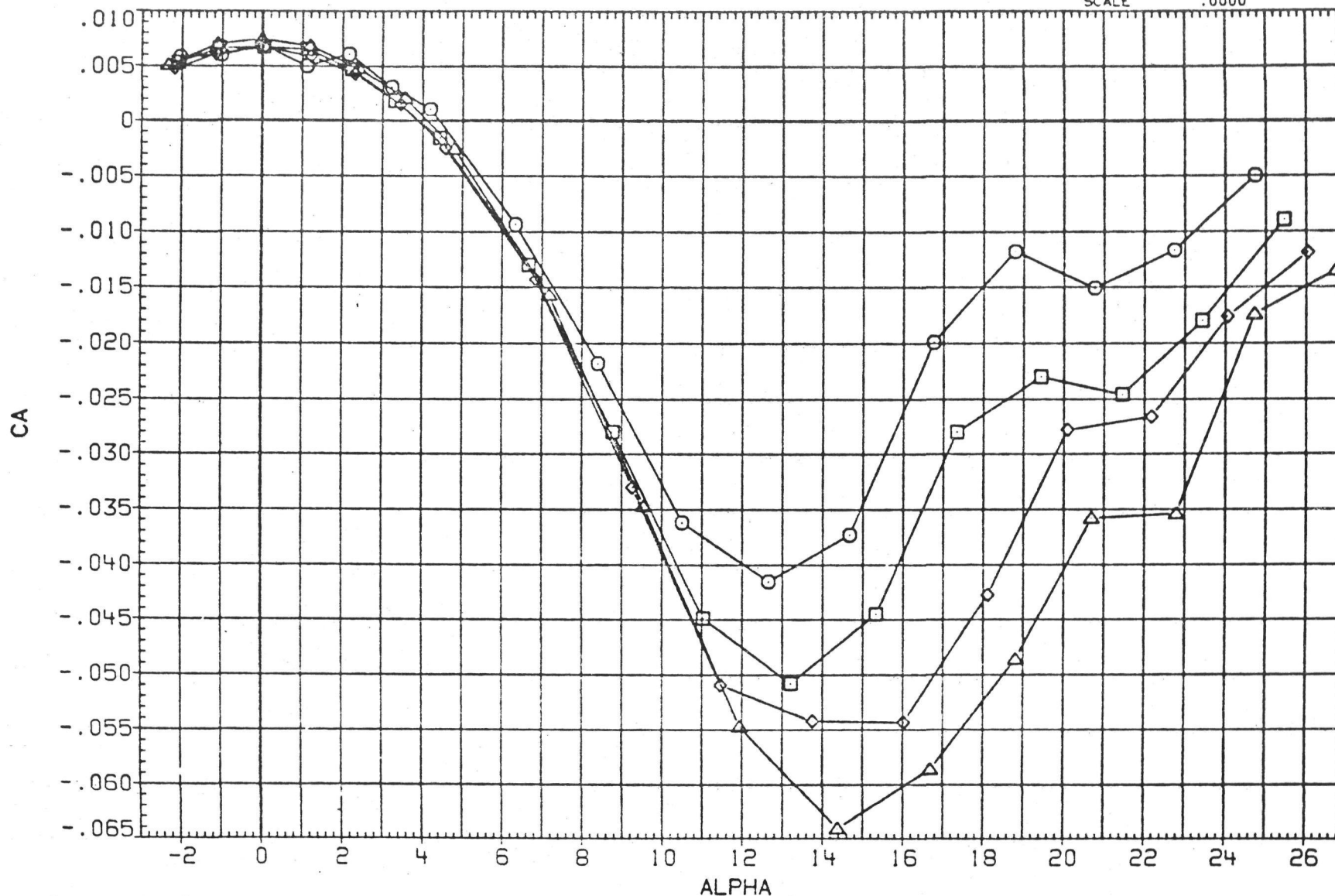


FIGURE 50. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 125 (FREE TRANS)

(JNC045) WING I 25-25-0008 AMES 12-086 (LA65)

SYMBOL		PARAMETRIC VALUES			
○	6.280	T/C	.080	LESWP	25.000
□	13.049	FILSWP	25.000	TESWP	25.000
◇	19.512	BETA	.000	MACH	.300
△	25.969	GRITNO	.000		

REFERENCE INFORMATION

SREF	.0490	SQ. M.
LREF	.1591	METERS
BREF	.3331	METERS
XMRP	.0722	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

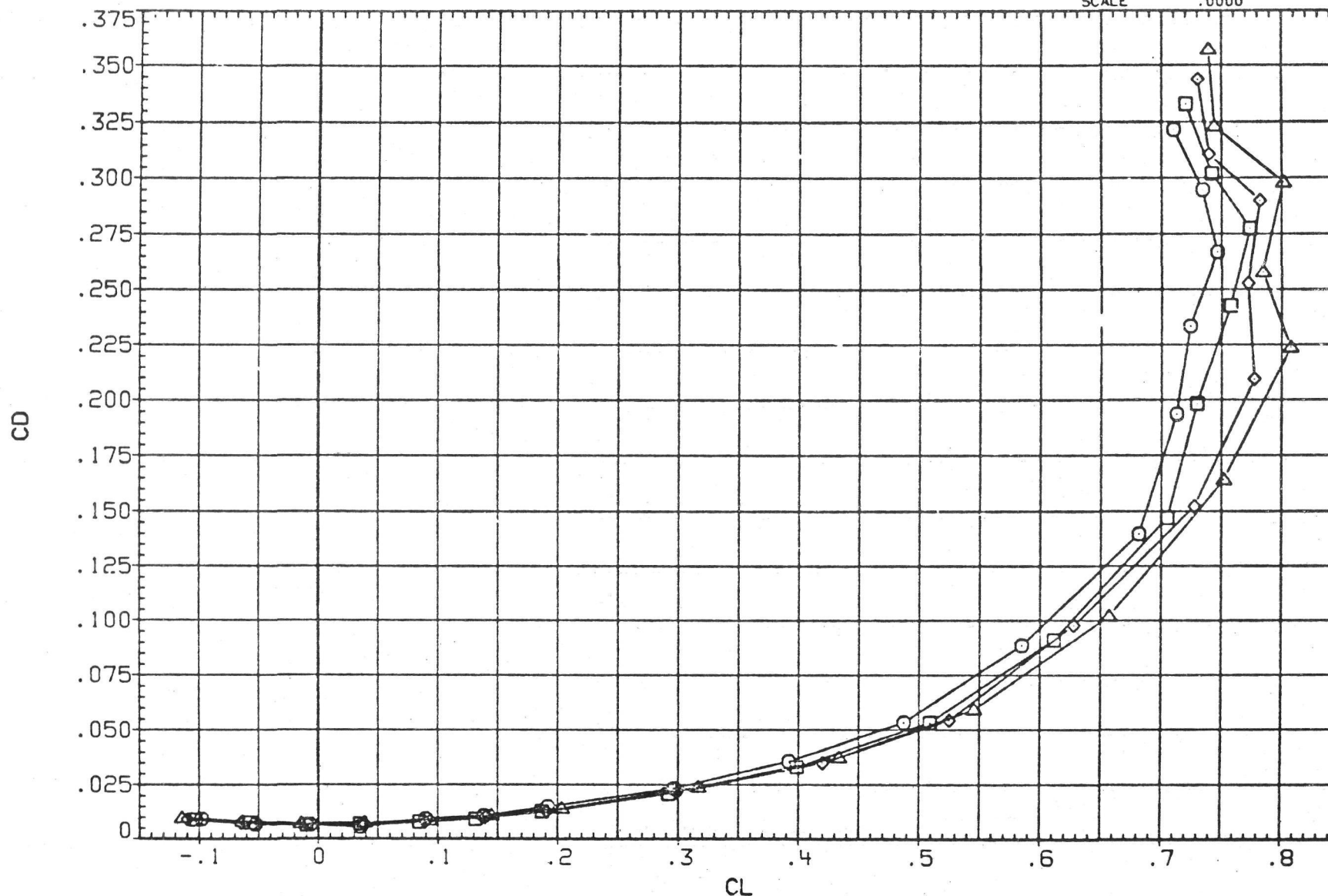


FIGURE 50. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 125 (FREE TRANS)

(JNC045) WING I 25-25-0008

AMES 12-086 (LA65)

SYMBOL

RN/M

PARAMETRIC VALUES

○
□
◇
△

6.280
13.049
19.512
25.969

T/C
FILSWP
BETA
GRITNO

.080
25.000
.000
.000

LESWP
TESWP
MACH

25.000
25.000
.300

REFERENCE INFORMATION

SREF	.0490	SO. M.
LREF	.1591	METERS
BREF	.3331	METERS
XMRP	.0722	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

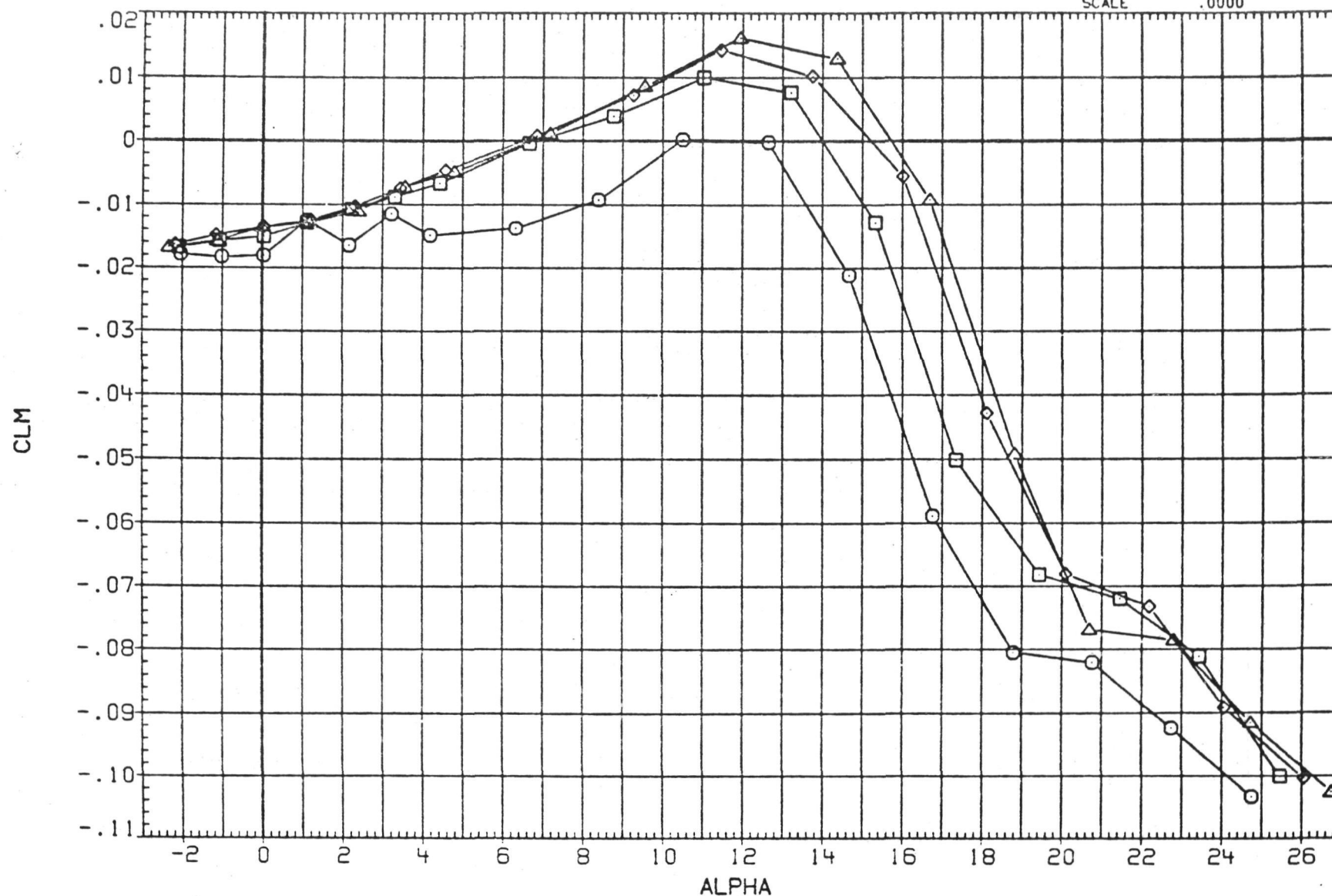


FIGURE 50. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 125 (FREE TRANS)

SYMBOL RN/M

○
□
◇
△6.280
13.049
19.512
25.969T/C
FILSWP
BETA
GRITNO

PARAMETRIC VALUES

.080 LESWP 25.000
25.000 TESWP 25.000
.000 MACH .300
.000

SREF	.0490	SQ. M.
LREF	.1591	METERS
BREF	.3331	METERS
XMRP	.0722	M. XB
YMRP	.0000	M. YB
ZMRP	.0000	M. ZB
SCALE	.0000	

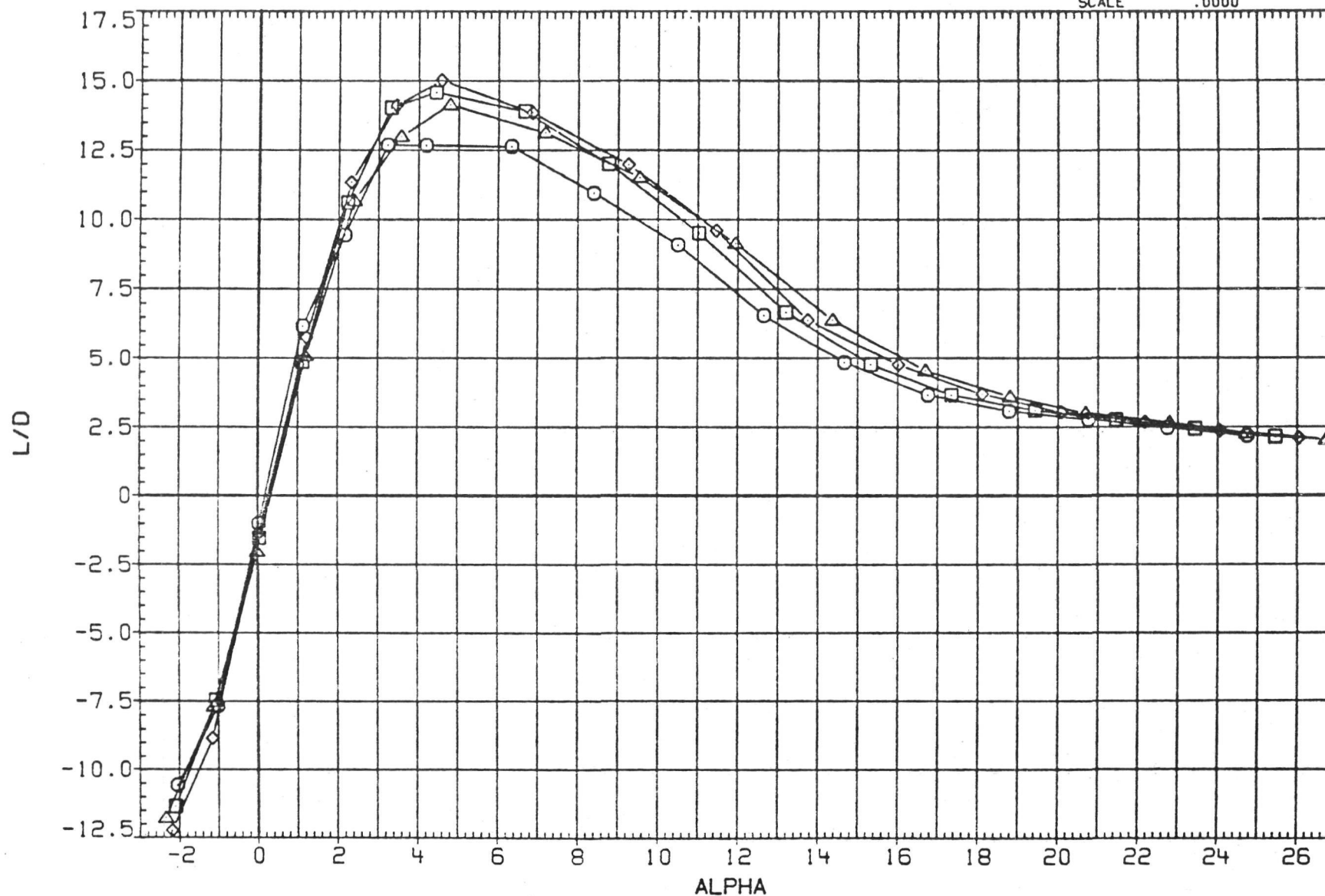


FIGURE 50. EFFECT OF RN/M ON THE LONG. CHARACTERISTICS OF CONF. 125 (FREE TRANS)

TABULATED DATA

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

PAGE 1

WING I 25-25-0008

AMES 12-086 (LA65)

(JNC001) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .0722 M. XB
 LREF = .1591 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 25.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 17/ 0 RN/L = 1.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
6.467	-2.030	.00000	-.06840	.01570	-.06780	.01809	-3.74960	-.C.860	.00130	.00310	-.01020
6.467	-.990	.00000	-.01820	.01740	-.01790	.01771	-1.00830	-.03220	.00140	.00310	-.01030
6.467	.120	.00000	.02500	.01700	.02500	.01705	1.46570	-.02700	.00150	.00320	-.01310
6.450	1.120	.00000	.07300	.01660	.07270	.01797	4.04540	-.02850	.00140	.00320	-.01050
6.450	2.210	.00000	.12320	.01520	.12250	.01998	6.13090	-.02750	.00140	.00320	-.01060
6.454	3.240	.00000	.17190	.01300	.17090	.02272	7.51870	-.02780	.00140	.00310	-.01000
6.444	4.260	.00000	.22250	.00940	.22120	.02584	8.55830	-.02730	.00140	.00300	-.01010
6.470	6.340	.00000	.31520	-.00110	.31340	.03371	9.29810	-.02100	.00140	.00290	-.01080
6.457	8.410	.00000	.41110	-.01380	.40870	.04646	8.79830	-.01550	.00140	.00290	-.01090
6.447	10.570	.00000	.51330	-.02850	.50980	.06610	7.71320	-.00850	.00140	.00250	-.01110
6.447	12.640	.00000	.61110	-.03300	.60350	.10143	5.94980	-.01150	.00130	.00280	-.01190
6.460	14.700	.00000	.71520	-.02810	.69890	.15438	4.52710	-.03140	.00120	.00300	-.01220
6.467	16.760	.00000	.76740	-.01510	.73920	.20683	3.57380	-.06630	.00230	.00280	-.01170
6.464	18.750	.00000	.78290	-.00600	.74320	.24606	3.02060	-.08780	.00190	.00250	-.01190
6.450	20.790	.00000	.80970	-.00870	.76000	.27931	2.72110	-.08890	.00250	.00280	-.01260
6.454	22.760	-.01000	.78930	-.00170	.72860	.30371	2.39890	-.10310	-.01500	.00570	-.00070
6.470	24.730	.00000	.73760	.00770	.66670	.31555	2.11290	-.11510	.00250	.00280	-.00930
GRADIENT	.00000	.00000	.04591	-.00100	.04561	.00123	1.99489	.00042	.00001	-.00001	.00011

RUN NO. 16/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
13.081	-2.110	.00000	-.09370	.01090	-.09320	.01432	-6.51210	-.02180	.00070	.00180	-.00490
13.062	-1.050	.00000	-.04820	.01260	-.04800	.01349	-3.55720	-.02010	.00070	.00190	-.00530
13.081	.050	.00000	.00470	.01320	.00470	.01316	.35570	-.02100	.00060	.00170	-.00510
13.075	1.160	.00000	.05060	.01210	.05030	.01311	3.83920	-.01870	.00060	.00160	-.00480
13.111	2.240	.00000	.10040	.01050	.09990	.01438	6.94370	-.01720	.00060	.00150	-.00490
13.098	3.330	.00000	.14990	.00760	.14920	.01633	9.13810	-.01500	.00060	.00150	-.00500
13.104	4.420	.00000	.20040	.00380	.19950	.01922	10.37900	-.01320	.00060	.00150	-.00500
13.078	6.620	.00000	.30230	-.00720	.30110	.02766	10.88400	-.00690	.00050	.00140	-.00520
13.072	8.760	.00000	.40300	-.02250	.40170	.03907	10.28300	.00190	.00050	.00130	-.00460
13.052	11.030	.00000	.51330	-.03910	.51130	.05976	8.55500	.00680	.00020	.00060	-.00330
13.068	13.170	.00000	.61800	-.04350	.61160	.09847	6.21150	.00370	.00020	.00070	-.00470
13.078	15.390	.01000	.72160	-.03890	.70600	.15399	4.58480	-.01600	-.00060	.00130	-.00660
13.078	17.370	.01000	.75650	-.01900	.72760	.20774	3.50270	-.05650	.00140	.00080	-.00540
13.065	19.370	.01000	.77870	-.01250	.73880	.24643	2.99800	-.07850	.00170	.00100	-.00590
13.055	21.450	.00000	.81490	-.01520	.76400	.28376	2.69250	-.08170	-.00500	.00190	-.00340
13.062	23.480	.01000	.81660	-.01340	.75430	.31306	2.40950	-.08740	.00750	.00050	-.00930
13.075	25.350	.00000	.74580	.00100	.67360	.32021	2.10350	-.10600	-.00110	.00060	-.00030
GRADIENT	.00000	.00000	.04500	-.00111	.04478	.00071	2.70663	.00130	-.00002	-.00006	.00002

WING I 25-25-0008

AMES 12-086 (LA65)

(JNC001) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .0722 M. XB
 LREF = .1591 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 25.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 15/ 0 RN/L = 5.86 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
19.256	-2.220	.00000	-.10630	.00890	-.10580	.01306	-8.10230	-.C.960	.00040	.00140	-.00340
19.240	-1.060	.00000	-.05540	.01040	-.05520	.01143	-4.83330	-.01780	.00040	.00120	-.00310
19.220	.030	.00000	-.00640	.01100	-.00640	.01095	-.58420	-.01670	.00040	.00130	-.00340
19.214	1.140	.00000	.04300	.00990	.04280	.01071	3.99870	-.01530	.00040	.00120	-.00310
19.286	2.260	.00000	.09090	.00840	.09050	.01200	7.54030	-.01360	.00030	.00100	-.00270
19.279	3.400	.00000	.14370	.00540	.14310	.01391	10.29000	-.01020	.00040	.00100	-.00320
19.296	4.530	.00000	.19630	.00140	.19560	.01689	11.57800	-.00690	.00030	.00100	-.00300
19.246	6.850	.00000	.30420	-.01110	.30330	.02529	11.99300	-.00070	.00040	.00090	-.00320
19.266	9.160	.00000	.41670	-.02910	.41600	.03766	11.04400	.00820	.00040	.00080	-.00310
19.240	11.470	.00000	.52420	-.04740	.52320	.05776	9.05680	.01470	-.00060	-.00020	-.00160
19.250	13.740	.01000	.63680	-.05320	.63120	.09965	6.33420	.01030	.00000	-.00140	-.00060
19.220	15.960	.00000	.72990	-.04660	.71460	.15593	4.58290	-.01320	-.00300	-.00090	.00020
19.200	18.050	.00000	.77860	-.03160	.75010	.21113	3.55290	-.05540	-.00700	-.00190	.00460
19.204	20.050	.00000	.78950	-.01800	.74780	.25368	2.94790	-.07550	-.00450	-.00100	-.00080
19.207	22.180	.00000	.83850	-.02600	.78630	.29250	2.68820	-.07190	-.01020	-.00100	.00250
19.145	24.070	.02000	.81490	-.01490	.75010	.31880	2.35280	-.08930	.00560	-.00120	-.00970
19.171	26.070	-.06000	.80480	-.00870	.72670	.34593	2.10090	-.10080	-.02960	-.00090	.03280
GRADIENT		.00000	.04469	-.00112	.04451	.00056	3.10019	.00180	-.00001	-.00006	.00005

RUN NO. 14/ 0 RN/L = 7.89 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
26.008	-2.300	.00000	-.11220	.00800	-.11170	.01248	-8.95210	-.01700	.00010	.00030	-.00090
25.953	-1.170	.00000	-.06390	.00950	-.06370	.01084	-5.87230	-.01620	.00000	.00010	-.00050
26.077	-.010	.00000	-.01380	.01020	-.01380	.01019	-1.35560	-.01400	.00000	.00010	-.00040
26.077	1.170	.00000	.03900	.00950	.03870	.01032	3.75510	-.01250	-.00010	.00000	-.00020
25.989	2.350	.00000	.09100	.00760	.09060	.01131	8.01220	-.01000	-.00010	.00000	.00010
25.986	3.540	.00000	.14510	.00450	.14450	.01344	10.75100	-.00670	.00000	.00000	-.00010
25.920	4.750	.00000	.19990	-.00030	.19920	.01626	12.25600	-.00320	.00000	.00000	-.00040
25.917	7.160	.00000	.31390	-.01380	.31320	.02540	12.32900	.00420	.00000	-.00010	-.00020
25.907	9.580	.00000	.43050	-.03350	.43010	.03860	11.14200	.01290	.00000	-.00020	-.00010
25.894	11.950	.00000	.53920	-.05300	.53850	.05985	8.99790	.02110	-.00110	-.00160	.00170
25.858	14.350	.00000	.65640	-.06280	.65140	.10188	6.39400	.01800	-.00150	-.00250	.00430
25.854	16.670	.00000	.75840	-.07030	.74670	.15022	4.97030	.00500	-.00860	-.00500	.00920
25.848	18.740	-.01000	.80280	-.04720	.77540	.21318	3.63730	-.04060	-.01580	-.00210	.00590
25.759	20.740	-.01000	.81140	-.02950	.76930	.25971	2.96220	-.06180	-.01380	-.00010	.00280
25.808	22.870	.00000	.84970	-.03030	.79470	.30231	2.62870	-.06670	-.00380	.00000	.00020
25.782	24.590	-.06000	.78050	-.01180	.71470	.31405	2.27570	-.09030	-.02560	-.00010	.02190
25.772	26.590	-.06000	.78530	-.00730	.70550	.34498	2.04520	-.10360	-.02440	-.00070	.02560
GRADIENT		.00000	.04431	-.00115	.04414	.00054	3.22328	.00196	-.00001	-.00004	.00008

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS 11

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WING I 25-80-0008

AMES 12-086 (LA65)

(JNC002) (18 APR 77)

REFERENCE DATA

SREF = .0734 SQ. M. XMRP = .3152 M. XB
 LREF = .3220 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 80.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 21/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
6.293	-2.000	.00000	-.04430	.00880	-.04390	.01030	-4.26770	.0370	-.00020	-.00090	.00270
6.260	-.970	.00000	-.01040	.00960	-.01030	.00975	-1.05180	-.00530	-.00020	-.00090	.00260
6.244	.070	.00000	.02130	.01010	.02130	.01015	2.09890	-.01300	-.00020	-.00110	.00290
6.234	1.110	.00000	.05150	.00940	.05130	.01038	4.94480	-.01920	-.00020	-.00080	.00240
6.221	2.160	.00000	.08580	.00820	.08540	.01145	7.46510	-.02810	-.00020	-.00110	.00320
6.224	3.180	.00000	.11560	.00680	.11500	.01321	8.70780	-.03400	-.00010	-.00040	.00180
6.217	4.230	.00000	.15200	.00490	.15120	.01612	9.37760	-.04240	-.00020	-.00050	.00260
6.214	6.320	.00000	.22450	-.00090	.22330	.02384	9.36430	-.05910	-.00010	-.00030	.00240
6.204	8.390	.00000	.30020	-.00680	.29800	.03711	8.02960	-.07500	.00000	-.00040	.00260
6.211	10.480	.00000	.38670	-.00820	.38180	.06235	6.12320	-.09640	-.00020	.00140	.00060
6.201	12.600	.00000	.48010	-.00670	.47000	.09825	4.78320	-.12120	.00020	.00000	.00250
6.198	14.710	.00000	.56840	-.00740	.55170	.13720	4.02090	-.14360	.00090	-.00020	.00190
6.191	16.820	.00000	.67030	-.01060	.64470	.18383	3.50720	-.16820	.00110	-.00040	.00110
6.195	18.920	.00000	.77040	-.01520	.73370	.23540	3.11680	-.19070	.00140	-.00070	-.00190
6.201	21.000	.01000	.86400	-.01940	.81350	.29161	2.78980	-.21150	.00250	-.00140	-.00350
6.191	23.110	.01000	.94730	-.02300	.88030	.35066	2.51030	-.22800	.00470	-.00270	-.00310
6.195	25.210	.01000	1.02400	-.02800	.93840	.41079	2.28440	-.24230	.00570	-.00300	-.00370
GRADIENT		.00000	.03114	-.00066	.03095	.00088	2.26344	-.00725	.00001	.00008	-.00005

RUN NO. 20/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
13.173	-2.090	.00000	-.06070	.00760	-.06030	.00985	-6.12520	.00980	.00010	-.00040	.00100
13.144	-1.030	.00000	-.02890	.00870	-.02870	.00922	-3.11920	.00200	.00020	-.00010	.00070
13.140	.070	.00000	.00670	.00910	.00670	.00910	.73260	-.00620	.00020	-.00010	.00080
13.131	1.150	.00000	.03930	.00860	.03910	.00940	4.15940	-.01400	.00010	-.00030	.00110
13.121	2.220	.00000	.07290	.00760	.07260	.01045	6.94930	-.02130	.00010	-.00020	.00100
13.114	3.320	.00000	.10590	.00590	.10540	.01199	8.78730	-.02890	.00010	-.00030	.00130
13.098	4.370	.00000	.14050	.00350	.13990	.01414	9.88920	-.03650	.00000	-.00020	.00120
13.098	6.540	.00000	.21280	-.00230	.21170	.02194	9.65090	-.05320	.00010	.00000	.00120
13.085	8.730	.00000	.29540	-.01000	.29350	.03495	8.39850	-.07100	.00010	.00000	.00120
13.081	10.910	-.01000	.38390	-.01400	.37960	.05891	6.44400	-.09170	.00070	.00300	-.00150
13.049	13.120	.00000	.48220	-.00890	.47160	.10082	4.67820	-.11910	.00090	.00030	.00050
13.121	15.320	.00000	.57380	-.00890	.55580	.14306	3.88500	-.14300	.00080	-.00020	.00060
13.088	17.570	.01000	.67830	-.01290	.65060	.19241	3.38130	-.16780	.00180	-.00040	-.00130
13.075	19.800	.01000	.73190	-.01730	.74160	.24860	2.98300	-.19250	.00230	-.00070	-.00500
13.045	22.000	.02000	.87370	-.02110	.81800	.30783	2.65730	-.21280	.00340	-.00140	-.00710
13.088	24.180	.03000	.94280	-.02410	.87000	.36411	2.38940	-.22570	.00520	.00220	-.00860
13.108	26.360	.03000	1.01170	-.02920	.91940	.42301	2.17360	-.23490	.00560	-.00230	-.00850
GRADIENT		.00000	.03107	-.00064	.03092	.00065	2.58356	-.00714	-.00002	.00000	.00007

WING I 25-80-0008

AMES 12-086 (LA65)

(JNC002) (18 APR 77)

REFERENCE DATA

SREF = .0734 SQ. M. XMRP = .3152 M. XB
 LREF = .3220 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 80.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 19/ 0 RN/L = 5.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
19.597	-2.170	.00000	-.06990	.00700	-.06950	.00960	-7.24620	.0270	.00030	-.00020	.00030
19.545	-1.070	.00000	-.03600	.00810	-.03580	.00877	-4.08430	.00460	.00020	-.00010	.00010
19.561	.050	.00000	-.00080	.00860	-.00080	.00859	-.08860	-.00330	.00020	.00000	.00010
19.515	1.200	.00000	.03420	.00820	.03400	.00888	3.82840	-.01130	.00020	-.00010	.00030
19.522	2.290	.00000	.06830	.00720	.06800	.00991	6.85720	-.01930	.00010	.00000	.00030
19.522	3.380	.00000	.10140	.00520	.10090	.01118	9.03320	-.02640	.00020	.00020	.00000
19.489	4.500	.00000	.13660	.00260	.13590	.01334	10.18700	-.03430	.00020	.00010	.00020
19.506	6.750	.00000	.21400	-.00370	.21290	.02152	9.89210	-.05200	.00020	.00010	.00020
19.489	9.050	.00000	.30460	-.01240	.30280	.03570	8.48220	-.07210	.00020	.00030	-.00010
19.499	11.360	.00000	.39400	-.02250	.39070	.05547	7.04350	-.09140	.00050	.00040	-.00030
19.489	13.680	.00000	.49650	-.01410	.48570	.10372	4.68280	-.12050	.00140	.00160	-.00180
19.499	15.980	.00000	.59330	-.01130	.57350	.15247	3.76150	-.14710	.00080	.00000	-.00050
19.453	18.330	.01000	.70070	-.01590	.67020	.20527	3.26480	-.17240	.00170	-.00060	-.00240
19.440	20.670	.03000	.80800	-.02090	.76340	.26570	2.87310	-.19710	.00240	-.00060	-.00770
19.443	22.960	.04000	.89300	-.02400	.83160	.32619	2.54950	-.21590	.00430	-.00190	-.00910
19.473	25.240	.05000	.96650	-.02790	.88620	.38689	2.29050	-.22930	.00510	-.00220	-.01080
19.466	27.460	.04000	1.01840	-.03240	.91860	.44076	2.08410	-.23270	.00460	-.00250	-.00940
GRADIENT		.00000	.03093	-.00065	.03077	.00056	2.74579	-.00703	-.00001	.00005	-.00001

RUN NO. 18/ 0 RN/L = 7.90 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
25.916	-2.260	.00000	-.07390	.00680	-.07350	.00972	-7.56210	.01430	.00030	.00000	-.00020
25.917	-1.120	.00000	-.04010	.00790	-.03990	.00873	-4.57730	.00630	.00030	.00010	-.00020
25.946	.050	.00000	-.00390	.00840	-.00390	.00844	-.46190	-.00180	.00030	.00000	.00000
25.999	1.200	.00000	.03080	.00790	.03060	.00855	3.58040	-.00980	.00030	.00010	-.00020
26.015	2.340	.00000	.06540	.00680	.06510	.00951	6.84680	-.01750	.00020	.00020	-.00020
25.963	3.480	.00000	.10060	.00490	.10010	.01096	9.13160	-.02540	.00010	.00020	-.00010
25.949	4.660	.00000	.13950	.00210	.13890	.01342	10.34700	-.03410	.00020	.00020	-.00030
25.926	7.040	.00000	.22350	-.00500	.22240	.02236	9.94590	-.05360	.00020	.00030	-.00030
25.894	9.390	.00000	.30970	-.01380	.30780	.03688	8.34760	-.07250	.00020	.00050	-.00040
25.900	11.810	.00000	.40370	-.02500	.40020	.05817	6.88080	-.09220	.00040	.00050	-.00090
25.884	14.230	-.01000	.50350	-.02530	.49430	.09922	4.98210	-.11780	.00190	.00680	-.00770
25.913	16.710	.01000	.61510	-.01390	.59310	.16353	3.62700	-.15090	.00100	-.00010	-.00130
25.867	19.180	.03000	.72790	-.01850	.69360	.22168	3.12870	-.17740	.00220	-.00050	-.00480
25.854	21.620	.05000	.83220	-.02370	.78240	.28455	2.74950	-.20170	.00280	-.00060	-.00900
25.838	23.990	.06000	.91550	-.02690	.84730	.34772	2.43690	-.21940	.00480	-.00190	-.01080
25.854	26.390	.08000	.99490	-.03280	.90590	.41278	2.19460	-.23260	.00400	-.00210	-.01380
25.930	28.660	.06000	1.02820	-.03610	.91950	.46153	1.99240	-.22920	.00350	-.00280	-.00830
GRADIENT		.00000	.03073	-.00067	.03058	.00052	2.74231	-.00696	-.00002	.00003	-.00001

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

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AMES 12-086 (LA65)

(JNC003) (18 APR 77)

REFERENCE DATA

SREF = .0643 SQ. M. XMRP = .2304 M. XB
 LREF = .2550 METERS YMPP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 75.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 40/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
13.111	-2.060	.00000	-.07460	.00810	-.07430	.01074	-6.91500	.0.680	.00000	-.00050	.00000
13.101	-1.030	.00000	-.03820	.00890	-.03800	.00962	-3.95320	.00180	-.00010	-.00050	.00030
13.094	.060	.00000	.00210	.00940	.00210	.00937	.22630	-.00410	-.00030	-.00060	.00230
13.078	1.170	.00000	.04060	.00890	.04040	.00977	4.13740	-.00980	-.00040	-.00040	.00240
13.039	2.180	.00000	.07820	.00800	.07780	.01096	7.10120	-.01510	-.00030	-.00030	.00200
13.039	3.230	.00000	.11630	.00590	.11580	.01250	9.26460	-.02050	-.00030	-.00030	.00200
13.062	4.310	.00000	.15640	.00320	.15570	.01490	10.45000	-.02600	-.00030	.00000	.00160
13.039	6.350	.00000	.23900	-.00340	.23790	.02309	10.30200	-.03860	-.00040	.00020	.00150
13.016	8.470	.00000	.32070	-.01390	.31930	.03347	9.53970	-.05000	-.00030	.00040	.00170
12.999	10.600	.00000	.41530	-.02330	.41250	.05356	7.70230	-.06420	.00010	.00130	.00060
12.999	12.710	.00000	.52130	-.01830	.51260	.09685	5.29230	-.08580	-.00030	-.00110	.00350
12.993	14.870	.00000	.62070	-.02240	.60570	.13766	4.39980	-.10430	-.00160	-.00240	.00550
12.996	17.010	.00000	.73480	-.02240	.70920	.19350	3.66490	-.12710	-.00040	.00000	.00280
12.986	19.120	.00000	.83640	-.02580	.79870	.24952	3.20110	-.14330	-.00030	.00030	.00190
13.032	21.240	.00000	.92400	-.02700	.87100	.30962	2.81320	-.15700	-.00070	-.00020	.00200
12.989	23.380	.00000	.98930	-.02990	.91990	.36522	2.51880	-.16530	-.00130	.00090	.00110
12.986	25.420	-.01000	1.04590	-.03510	.95970	.41719	2.30050	-.16940	-.00190	.00210	-.00060
GRADIENT		.00000	.03624	-.00074	.03608	.00066	2.87255	-.00518	-.00004	.00007	.00027

RUN NO. 39/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.699	-2.060	.00000	-.07290	.00800	-.07250	.01058	-6.85880	.00690	.00000	-.00030	.00070
19.686	-.960	.00000	-.03440	.00890	-.03420	.00946	-3.61530	.00140	-.00010	-.00030	.00170
19.666	.110	.00000	.00230	.00910	.00230	.00913	.24660	-.00400	-.00020	-.00020	.00170
19.637	1.100	.00000	.03860	.00880	.03840	.00954	4.02830	-.00920	-.00030	-.00010	.00170
19.604	2.190	.00000	.07770	.00750	.07740	.01051	7.36270	-.01460	-.00020	.00020	.00140
19.601	3.300	.00000	.11830	.00550	.11780	.01226	9.61010	-.02020	-.00030	.00020	.00130
19.634	4.370	.00000	.15840	.00280	.15770	.01490	10.58400	-.02620	-.00020	.00030	.00080
19.620	6.560	.00000	.24140	-.00540	.24040	.02224	10.81100	-.03790	-.00030	.00030	.00090
19.611	8.680	.00000	.32830	-.01600	.32690	.03376	9.68410	-.05090	-.00030	.00050	.00090
19.584	10.900	.00000	.42040	-.02740	.41800	.05259	7.94840	-.06460	.00000	.00060	.00070
19.597	13.080	.00000	.51690	-.02730	.50970	.09035	5.64200	-.08090	-.00030	-.00110	.00230
19.578	15.280	.00000	.62150	-.02680	.60660	.13793	4.39770	-.10440	-.00240	-.00260	.00450
19.617	17.490	.00000	.73260	-.02710	.70690	.19434	3.63740	-.12700	-.00080	-.00030	.00140
19.591	19.640	.00000	.83240	-.03060	.79430	.25092	3.16560	-.14310	.00030	.00010	.00090
19.551	21.820	.00000	.92200	-.03480	.86890	.31044	2.79890	-.15620	-.00020	.00040	.00070
19.581	23.980	.00000	.98240	-.03600	.91220	.36646	2.48930	-.16300	-.00140	.00060	.00010
19.588	26.070	.00000	1.02710	-.03840	.93950	.41690	2.25360	-.16840	-.00150	.00110	-.00010
GRADIENT		.00000	.03596	-.00081	.03579	.00067	2.86990	-.00512	-.00003	.00011	-.00003

WING I 25-75-0008

AMES 12-086 (LA65)

(JNC003) (18 APR 77)

REFERENCE DATA

SREF = .0643 SQ. M. XMRP = .2304 M. XB
 LREF = .2550 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 75.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 38/ 0 RN/L = 7.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
26.209	-2.140	.00000	-.07630	.00670	-.07600	.00951	-7.99810	.0.740	.00000	-.00010	-.00030
26.202	-1.050	.00000	-.03960	.00780	-.03950	.00853	-4.62860	.00210	.00000	.00000	-.00020
26.196	.080	.00000	.00080	.00800	.00080	.00804	.09480	-.00360	.00000	.00000	-.00020
26.166	1.140	.00000	.03610	.00760	.03600	.00828	4.34200	-.00870	-.00010	.00010	-.00030
26.199	2.270	.00000	.07600	.00640	.07570	.00945	8.01700	-.01400	.00000	.00010	-.00040
26.153	3.400	.00000	.11720	.00400	.11680	.01090	10.71500	-.02010	.00000	.00020	-.00010
26.156	4.420	.00000	.15580	.00160	.15520	.01364	11.38300	-.02560	-.00010	.00030	.00010
26.182	5.540	.00000	.19800	-.00170	.19720	.01744	11.31000	-.03160	-.00020	.00020	.00030
26.163	6.660	.00000	.24250	-.00630	.24160	.02189	11.03600	-.03820	-.00010	.00030	.00010
26.104	8.920	.00000	.33270	-.01720	.33130	.03457	9.58550	-.05160	-.00010	.00030	-.00020
26.113	11.150	.00000	.42130	-.02820	.41880	.05382	7.78060	-.06500	-.00020	.00050	.00020
26.120	13.380	.01000	.52370	-.03370	.51730	.08841	5.85080	-.08180	-.00080	-.00270	.00400
26.113	15.680	.01000	.63670	-.03070	.62130	.14246	4.36140	-.10690	-.00290	-.00250	.00450
26.077	17.890	.00000	.73670	-.02980	.71030	.19787	3.58960	-.12790	.00010	-.00160	.00320
26.097	20.130	.00000	.83530	-.03200	.79520	.25740	3.08950	-.14440	-.00060	-.00030	.00130
26.097	22.350	-.01000	.91080	-.03210	.85460	.31664	2.69890	-.15790	-.00190	.00120	-.00110
25.986	24.510	.00000	.97560	-.03690	.90300	.37105	2.43360	-.16390	-.00050	.00040	.00050
25.966	26.690	.00000	1.01850	-.04090	.92840	.42099	2.20520	-.16840	-.00180	.00030	.00010
GRADIENT		.00000	.03526	-.00079	.03513	.00060	3.14750	-.00500	-.00001	.00006	.00004

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

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AMES 12-086 (LA65)

(JNC004) (18 APR 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = .0597 SQ. M. XMRP = .1852 M. XB
 LREF = .2236 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

T/C = .080 LESWP = 25.000
 FILSWP = 70.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 43/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
13.058	-2.060	.00000	-.07320	.00590	-.07270	.00853	-8.54500	-.0.040	.00000	.00030	.00100
13.032	-.990	.00000	-.03650	.00820	-.03640	.00880	-4.13250	-.00430	.00000	.00040	.00060
13.072	.060	.00000	.00180	.00790	.00180	.00795	.22980	-.00740	.00000	.00050	.00080
13.049	1.170	.00000	.04280	.00760	.04260	.00852	5.00610	-.01200	-.00010	.00060	.00120
13.049	2.220	.00000	.08460	.00670	.08430	.00996	8.46220	-.01560	.00000	.00060	.00080
13.032	3.320	.00000	.12420	.00430	.12380	.01146	10.79900	-.01840	-.00010	.00070	.00040
13.049	4.380	.00000	.16560	.00160	.16500	.01421	11.60900	-.02260	-.00030	.00050	.00080
13.032	6.520	.00000	.25040	-.00640	.24950	.02211	11.28700	-.02940	-.00040	.00040	.00140
13.049	8.640	.00000	.33730	-.01780	.33610	.03314	10.14200	-.03700	-.00050	.00000	.00190
13.032	10.800	.00000	.42820	-.02340	.42500	.05727	7.42080	-.04820	-.00200	-.00300	.00470
13.019	13.000	.00000	.53980	-.01980	.53040	.10212	5.19370	-.06800	-.00050	-.00120	.00250
13.016	15.150	.00000	.64400	-.02480	.62810	.14435	4.35130	-.08050	-.00140	-.00070	.00210
13.012	17.320	.00000	.75010	-.02950	.72490	.19520	3.71350	-.09640	-.00050	.00060	.00040
12.983	19.420	.00000	.82780	-.03250	.79160	.24451	3.23730	-.10850	.00130	.00080	.00060
13.052	21.570	-.01000	.89620	-.03330	.84570	.29861	2.83210	-.12120	.00060	.00090	.00190
13.009	23.670	.00000	.96120	-.03650	.89500	.35251	2.53890	-.13120	.00640	.00110	.00040
13.035	25.710	-.01000	1.00240	-.03940	.92020	.39946	2.30370	-.13390	-.00130	.00110	.00110
GRADIENT	.00000	.00000	.03723	-.00073	.03710	.00081	3.27397	-.00342	-.00004	.00004	-.00003

RUN NO. 50/ 0 RN/L = 5.92 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.453	-2.150	.00000	-.08540	.00720	-.08510	.01042	-8.16490	.00190	-.00010	.00020	-.00070
19.443	-1.060	.00000	-.04410	.00840	-.04400	.00921	-4.77040	-.00280	-.00010	.00020	-.00080
19.469	.040	.00000	-.00250	.00870	-.00250	.00871	-.28770	-.00620	-.00020	.00020	-.00080
19.502	1.180	.00000	.04010	.00830	.03990	.00909	4.39580	-.01040	-.00030	-.00010	.00010
19.483	2.290	.00000	.08220	.00690	.08130	.01019	8.02810	-.01400	-.00040	.00010	.00000
19.469	3.430	.00000	.12520	.00460	.12470	.01208	10.31700	-.01730	-.00040	.00010	-.00030
19.453	4.530	.00000	.16710	.00130	.16650	.01451	11.47200	-.02060	-.00040	.00010	-.00020
19.443	6.690	.00000	.25270	-.00750	.25180	.02201	11.44300	-.02770	-.00050	.00020	-.00050
19.427	8.940	.00000	.34950	-.02110	.34850	.03347	10.41300	-.03650	-.00050	-.00010	.00010
19.420	11.180	.01000	.43980	-.02920	.43720	.05658	7.72610	-.04540	-.00250	-.00250	.00270
19.414	13.420	.00000	.54420	-.02370	.53490	.10325	5.18010	-.06620	-.00060	-.00160	.00150
19.450	15.690	.01000	.64160	-.02780	.62520	.14675	4.26050	-.07730	-.00320	-.00200	.00150
19.430	17.960	.00000	.75090	-.03020	.72360	.20278	3.56850	-.09140	-.00090	.00010	-.00130
19.391	20.170	.00000	.83150	-.03290	.79190	.25590	3.09440	-.10240	-.00050	.00000	-.00030
19.401	22.300	.00000	.89880	-.03560	.84510	.30810	2.74290	-.11240	-.00160	.00040	.00050
19.391	24.390	.00000	.93460	-.03850	.86710	.35078	2.47190	-.11670	.00060	.00040	.00060
19.384	26.450	.00000	.96290	-.03960	.87980	.39340	2.23630	-.12200	.00170	.00000	.00180
GRADIENT	.00000	.00000	.03776	-.00087	.03762	.00063	3.11422	-.00333	-.00005	-.00002	.00011

WING I 25-70-0008

AMES 12-086 (LA65)

(JNC004) (18 APR 77)

REFERENCE DATA

SREF = .0597 SQ. M. XMRP = .1852 M. XB
 LREF = .2236 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 70.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 49/ 0 RN/L = 7.93 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
26.048	-2.250	.00000	-.08990	.00730	-.08950	.01083	-8.27040	.0.300	.00000	.00000	.00020
26.031	-1.110	.00000	-.04800	.00860	-.04790	.00948	-5.04750	-.00150	.00000	-.00010	.00030
26.064	.020	.00000	-.00590	.00910	-.00590	.00905	-.65100	-.00550	-.00010	.00000	.00020
26.094	1.220	.00000	.03960	.00850	.03940	.00935	4.21580	-.00950	-.00010	.00000	.00020
26.031	2.370	.00000	.08130	.00730	.08090	.01066	7.58900	-.01310	-.00020	.00010	.00050
26.041	3.510	.00000	.12590	.00470	.12540	.01239	10.11700	-.01660	-.00030	.00000	.00050
26.094	4.650	.00000	.17270	.00110	.17210	.01508	11.40600	-.02040	-.00030	.00010	.00020
26.081	6.980	.00000	.26390	-.00870	.26300	.02338	11.24800	-.02810	-.00030	.00010	.00040
26.018	9.280	.00000	.36290	-.02330	.36190	.03559	10.16600	-.03650	-.00040	-.00010	.00070
26.074	11.560	.00000	.45270	-.03380	.45030	.05765	7.81110	-.04440	-.00210	-.00190	.00350
26.084	13.910	.01000	.55740	-.02860	.54790	.10629	5.15440	-.06320	-.00040	-.00130	.00080
26.035	16.250	.01000	.65780	-.03110	.64020	.15423	4.15130	-.07700	-.00320	-.00310	.00410
26.005	18.590	.00000	.75840	-.03340	.72950	.21013	3.47170	-.09090	-.00270	-.00080	-.00030
25.953	20.850	.00000	.84240	-.03370	.79920	.26830	2.97880	-.10520	-.00110	.00010	-.00150
26.002	23.120	.00000	.91210	-.03750	.85350	.32369	2.63680	-.11410	-.00090	.00070	-.00120
26.018	25.180	.00000	.94230	-.03940	.86950	.36528	2.38040	-.11800	-.00130	.00070	-.00030
26.005	27.370	-.01000	.98030	-.04040	.88910	.41479	2.14360	-.12650	-.00040	.00080	.00040
GRADIENT		.00000	.03787	-.00087	.03773	.00062	3.02419	-.00334	-.00005	.00002	.00002

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

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AMES 12-086 (LA65)

(JNC005) (18 APR 77)

REFERENCE DATA

SREF = .0569 SQ. M. XMRP = .1566 M. XB
 LREF = .2055 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 65.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 48/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
13.049	-2.100	.00000	-.08700	.00900	-.08660	.01219	-7.09940	-.0.270	.00030	-.00050	.00100
13.042	-1.030	.00000	-.04570	.01000	-.04550	.01084	-4.20110	-.00570	.00020	-.00040	.00110
13.068	.050	.00000	-.00150	.01060	-.00150	.01061	-.13910	-.00930	.00020	-.00020	.00110
13.075	1.180	.00000	.04150	.01020	.04130	.01105	3.73220	-.01160	.00020	-.00010	.00100
13.058	2.240	.00000	.08300	.00880	.08260	.01199	6.88590	-.01390	.00020	-.00010	.00090
13.052	3.360	.00000	.12800	.00640	.12740	.01384	9.20550	-.01590	.00020	-.00010	.00080
13.029	4.430	.00000	.17150	.00350	.17080	.01673	10.20400	-.01800	.00020	-.00020	.00130
13.026	6.590	.00000	.25850	-.00490	.25740	.02476	10.39700	-.02110	.00010	-.00020	.00120
13.022	8.720	.00000	.35100	-.01350	.34900	.03987	8.75270	-.02540	.00010	-.00090	.00180
13.029	10.900	.00000	.45300	-.01440	.44750	.07153	6.25620	-.03700	.00060	-.00010	.00080
13.029	13.130	.00000	.56300	-.01950	.55270	.10887	5.07650	-.04940	-.00030	-.00040	.00190
13.019	15.330	.00000	.66090	-.02440	.64380	.15120	4.25790	-.05750	-.00080	-.00010	.00170
13.032	17.440	.00000	.72960	-.02590	.70390	.19399	3.62840	-.06450	-.00130	.00010	.00150
13.006	19.560	.00000	.79770	-.02670	.76060	.24182	3.14520	-.07590	-.00540	.00020	.00260
12.999	21.730	.00000	.87430	-.03020	.82340	.29567	2.78490	-.08520	-.00690	.00040	.00240
12.996	23.820	.00000	.92160	-.03440	.85700	.34076	2.51500	-.08940	-.00240	.00100	-.00070
13.019	25.890	.00000	.96570	-.03750	.88520	.38793	2.28190	-.09840	-.00080	.00090	-.00090
GRADIENT		.00000	.03951	-.00084	.03934	.00069	2.80622	-.00232	-.00001	.00005	.00000

RUN NO. 47/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.604	-2.210	.00000	-.09420	.00780	-.09390	.01138	-8.24510	-.00250	.00040	-.00030	.00050
19.647	-1.010	.00000	-.04630	.00930	-.04620	.01015	-4.55090	-.00570	.00040	-.00030	.00040
19.637	.020	.00000	-.00760	.00950	-.00760	.00946	-.80300	-.00730	.00020	-.00030	.00070
19.660	1.170	.00000	.03760	.00940	.03740	.01014	3.69090	-.01030	.00020	-.00030	.00060
19.620	2.320	.00000	.08410	.00770	.08370	.01107	7.56710	-.01280	.00020	-.00010	.00030
19.588	3.480	.00000	.13050	.00540	.12990	.01327	9.79450	-.01490	.00020	-.00010	.00040
19.620	4.530	.00000	.17170	.00210	.17100	.01562	10.94700	-.01620	.00030	-.00010	.00060
19.594	6.860	.00000	.26860	-.00760	.26760	.02452	10.91500	-.01990	.00000	-.00030	.00060
19.581	9.110	.00000	.36700	-.01790	.36520	.04046	9.02570	-.02550	-.00020	-.00120	.00120
19.607	11.390	.00000	.46680	-.02060	.46170	.07193	6.41860	-.03610	.00050	-.00110	.00130
19.617	13.700	.00000	.58730	-.02240	.57590	.11733	4.90850	-.05340	.00000	-.00020	.00200
19.634	16.000	.00000	.68250	-.02890	.66400	.16042	4.13940	-.05820	.00000	.00010	.00070
19.614	18.230	.00000	.76650	-.03290	.73830	.20853	3.54060	-.06580	-.00100	.00020	.00050
19.591	20.380	.00000	.82340	-.03400	.78370	.25492	3.07420	-.07350	-.00380	.00030	.00110
19.591	22.520	.00000	.86720	-.03510	.81450	.29966	2.71820	-.08120	-.00440	.00060	.00090
19.578	24.630	.00000	.90970	.03670	.84220	.34574	2.43600	-.09080	-.00170	.00060	.00010
19.581	26.740	.00000	.96240	-.03930	.87710	.39789	2.20440	-.10210	-.00070	.00040	.00060
GRADIENT		.00000	.03946	-.00085	.03931	.00065	3.00552	-.00207	-.00002	.00004	-.00000

WING I 25-65-0008

AMES 12-086 (LA65)

(JNC005) (18 APR 77)

REFERENCE DATA

SREF = .0569 SQ. M. XMRP = .1566 M. XB
 LREF = .2055 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 65.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 46/ 0 RN/L = 7.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
26.291	-2.340	.00000	-.09970	.00720	-.09930	.01125	-8.82760	-.0.210	.00040	.00010	-.00080
26.255	-1.100	.00000	-.05200	.00870	-.05180	.00969	-5.34690	-.00470	.00040	.00000	-.00030
26.232	.050	.00000	-.00800	.00930	-.00800	.00934	-.85830	-.00750	.00030	.00000	-.00030
26.199	1.210	.00000	.03720	.00880	.03700	.00957	3.86800	-.00970	.00040	.00000	-.00040
26.182	2.400	.00000	.08540	.00720	.08500	.01081	7.85940	-.01260	.00040	.00000	-.00030
26.225	3.570	.00000	.12890	.00460	.12840	.01259	10.19500	-.01400	.00030	.00010	-.00040
26.196	4.740	.00000	.17870	.00090	.17800	.01564	11.38000	-.01600	.00030	-.00010	.00010
26.215	7.130	.00000	.28040	-.00990	.27950	.02498	11.19000	-.02020	.00010	-.00030	.00000
26.159	9.470	.00000	.37890	-.02150	.37730	.04112	9.17520	-.02520	-.00060	-.00150	.00170
26.222	11.980	.00000	.49040	-.02580	.48500	.07649	6.34090	-.03660	.00030	-.00200	.00240
26.196	14.300	.00000	.60180	-.02630	.58960	.12324	4.78450	-.05570	.00040	-.00010	.00090
26.186	16.610	.00000	.68900	-.03120	.66910	.16714	4.00330	-.06080	.00040	.00000	.00100
26.133	18.990	.00000	.77530	-.03680	.74510	.21744	3.42640	-.06630	-.00100	.00010	.00050
26.136	21.270	.00000	.83760	-.03890	.79460	.26755	2.97010	-.07490	-.00200	.00020	.00050
26.136	23.280	-.01000	.86580	-.03730	.81000	.30793	2.63050	-.08330	-.00380	.00070	.00060
26.091	25.480	.00000	.90950	-.03830	.83760	.35664	2.34850	-.09480	-.00040	.00030	.00040
26.222	27.670	.00000	.96590	-.04160	.87480	.41167	2.12490	-.10500	-.00010	.00030	.00010
GRADIENT		.00000	.03919	-.00088	.03903	.00062	3.04962	-.00199	-.00001	-.00001	.00008

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AMES 12FT 086-1-12 (LA-65) SHIPS II

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AMES 12-086 (LA65)

(JNC006) (18 APR 77)

REFERENCE DATA

SREF = .0549 SQ. M. XMRP = .1366 M. XB
 LREF = .1936 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 60.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 51/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
13.081	-2.100	.00000	-.09820	.00840	-.09780	.01197	-8.16820	.0.050	.00050	.00000	-.00350
13.098	-.970	.00000	-.05240	.00970	-.05230	.01055	-4.95450	-.00200	.00030	-.00010	-.00160
13.075	.060	.00000	-.00840	.01020	-.00840	.01016	-.82540	-.00360	.00020	-.00010	-.00150
13.062	1.150	.00000	.03530	.00960	.03510	.01027	3.41880	-.00580	.00020	.00000	-.00160
13.035	2.170	.00000	.07720	.00830	.07680	.01123	6.84040	-.00670	.00020	-.00010	-.00150
13.075	4.320	.00000	.16900	.00270	.16830	.01537	10.95100	-.00950	.00010	-.00010	-.00090
13.072	6.500	.00000	.26170	-.00650	.26070	.02317	11.25300	-.01190	.00020	.00000	-.00120
13.111	8.590	.00000	.35520	-.01940	.35420	.03385	10.46300	-.01470	.00010	-.00010	-.00130
13.114	10.650	.00000	.45280	-.03120	.45070	.05300	8.50370	-.01770	-.00070	-.00160	.00050
13.091	12.840	.00000	.55560	-.02500	.54720	.09909	5.52250	-.03350	.00090	.00110	-.00190
13.094	14.960	.00000	.64320	-.01730	.62590	.14929	4.19240	-.05570	.00310	-.00010	-.00130
13.108	16.990	.00000	.67730	-.01220	.65130	.18621	3.49780	-.06840	.00150	-.00080	-.00120
13.085	18.990	.00000	.71860	-.00610	.68140	.22804	2.98820	-.08560	-.00090	.00000	-.00130
13.075	21.090	.00000	.76860	-.00620	.71930	.27075	2.65690	-.09680	.00020	.00010	-.00140
13.055	23.120	.00000	.80280	-.00630	.74080	.30947	2.39380	-.10480	-.00180	.00030	.00050
13.055	25.160	.00000	.82560	-.00600	.74980	.34567	2.16900	-.11150	-.00410	-.00010	.00420
GRADIENT		.00000	.04156	-.00089	.04139	.00053	3.11191	-.00154	-.00005	-.00001	.00030

RUN NO. 53/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.607	-2.080	.00000	-.09670	.00750	-.09640	.01101	-8.75770	.00160	.00030	.00030	.00020
19.581	-.020	.00000	-.01050	.00930	-.01050	.00926	-1.13170	-.00340	.00020	.00040	.00020
19.519	1.130	.00000	.03630	.00880	.03610	.00950	3.80060	-.00460	.00020	.00040	.00120
19.597	2.250	.00000	.08220	.00710	.08190	.01035	7.91510	-.00590	.00010	.00040	.00120
19.640	3.320	.00000	.12710	.00490	.12660	.01221	10.36500	-.00740	.00010	.00040	.00090
19.656	4.370	.00000	.17220	.00160	.17160	.01473	11.64700	-.00860	.00010	.00050	.00090
19.637	6.620	.00000	.26860	-.00830	.26780	.02275	11.77400	-.01100	.00010	.00040	.00170
19.666	8.840	.00000	.37140	-.02290	.37050	.03442	10.76400	-.01320	.00000	.00040	.00150
19.614	11.050	.00000	.46980	-.03560	.46790	.05504	8.50150	-.01710	-.00120	-.00170	.00430
19.630	13.270	.00000	.57360	-.02880	.56490	.10358	5.45380	-.03410	.00060	.00080	.00080
19.578	15.400	.00000	.66250	-.02140	.64440	.15527	4.15020	-.06010	.00050	.00050	.00150
19.588	17.470	.00000	.70390	-.01550	.67610	.19650	3.44090	-.07450	.00270	-.00010	.00050
19.588	19.530	.00000	.73470	-.00980	.69570	.23639	2.94290	-.08600	.00040	-.00010	.00210
19.581	21.590	.00000	.78090	-.01000	.72980	.27809	2.62420	-.09560	.00070	.00040	.00180
19.617	23.650	-.01000	.80480	-.00860	.74070	.31489	2.35210	-.10340	-.00280	.00110	.00430
19.574	25.720	-.01000	.83620	-.00960	.75760	.35422	2.13870	-.10990	-.00540	-.00010	.00830
GRADIENT		.00000	.04155	-.00092	.04141	.00057	3.28811	-.00152	-.00003	.00002	.00013

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AMES 12-086 (LA65)

(JNC006) (18 APR 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = .0549 SQ. M. XMRP = .1366 M. XB
 LREF = .1936 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

T/C = .080 LESWP = 25.000
 FILSWP = 60.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 52/ 0 RN/L = 7.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
26.248	-2.190	.00000	-.09850	.00780	-.09810	.01152	-8.51430	.00070	.00030	.00020	-.00050
26.215	-1.090	.00000	-.05380	.00920	-.05360	.01020	-5.25510	-.00090	.00030	.00030	-.00050
26.166	.080	.00000	-.00670	.00970	-.00670	.00966	-.69450	-.00340	.00020	.00030	.00020
26.209	1.240	.00000	.04050	.00910	.04030	.00998	4.03730	-.00470	.00020	.00020	.00000
26.110	2.330	.00000	.08470	.00740	.08440	.01081	7.80280	-.00590	.00010	.00030	-.00020
26.123	3.480	.00000	.13260	.00490	.13210	.01291	10.23300	-.00760	.00020	.00030	-.00020
26.163	4.560	.00000	.17830	.00120	.17760	.01540	11.53600	-.00850	.00020	.00030	.00000
26.133	6.830	.00000	.28040	-.00930	.27950	.02410	11.59800	-.01150	.00010	.00030	.00020
26.120	9.090	.00000	.38130	-.02440	.38040	.03612	10.53200	-.01360	.00020	.00040	-.00010
26.054	11.360	.00000	.48150	-.03970	.47990	.05597	8.57480	-.01640	-.00100	-.00140	.00200
26.038	13.650	.00000	.58820	-.03890	.58080	.10098	5.75160	-.02970	-.00020	-.00050	.00100
26.077	15.830	.00000	.67480	-.02710	.65660	.15802	4.15510	-.05770	-.00050	.00040	.00040
26.002	17.930	-.01000	.72610	-.02130	.69740	.20331	3.43030	-.07900	-.00200	.00070	.00080
25.946	20.010	-.01000	.76510	-.01900	.72540	.24387	2.97460	-.08900	-.00170	.00060	.00120
25.989	22.030	.00000	.77520	-.01280	.72340	.27886	2.59420	-.09680	.00360	-.00010	-.00180
25.963	24.150	-.01000	.81340	-.01090	.74670	.32286	2.31270	-.10700	-.00380	.00120	.00250
25.949	26.180	-.01000	.84080	-.01110	.75880	.36075	2.10350	-.11340	-.00340	-.00010	.00440
GRADIENT		.00000	.04091	-.00097	.04076	.00057	3.15235	-.00138	-.00002	.00001	.00005

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AMES 12-086 (LA65)

(JNC007) (18 APR 77)

REFERENCE DATA

SREF = .0535 SQ. M. XMRP = .1215 M. XB
 LREF = .1852 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 55.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 56/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
13.049	-2.070	.00000	-.09250	.00910	-.09210	.01246	-7.39090	-.0.260	.00000	-.00020	.00170
13.065	-1.040	.00000	-.04730	.01030	-.04710	.01113	-4.23510	-.00560	.00000	-.00020	.00150
13.042	.050	.00000	-.00260	.01080	-.00270	.01077	-.24620	-.00690	-.00010	-.00020	.00170
13.019	1.130	.00000	.04070	.01040	.04050	.01118	3.62260	-.00780	-.00010	.00000	.00130
13.029	2.180	.00000	.08640	.00890	.08600	.01219	7.05290	-.00880	-.00010	.00000	.00110
12.999	3.280	.00000	.13380	.00650	.13320	.01415	9.41560	-.00950	-.00010	.00000	.00100
13.101	4.340	.00000	.17980	.00320	.17900	.01681	10.64700	-.00920	-.00010	.00020	.00110
13.101	6.510	.00000	.27350	-.00670	.27250	.02431	11.21300	-.01000	.00000	.00020	.00090
13.098	8.640	.00000	.36950	-.02020	.36840	.03553	10.36700	-.01040	.00000	.00020	.00060
13.088	10.780	.00000	.47310	-.03850	.47200	.05066	9.31670	-.01090	-.00010	.00030	.00060
13.108	12.960	.00000	.57380	-.06020	.57270	.06997	8.18480	-.01080	-.00040	.00010	.00140
13.091	15.060	.00000	.67090	-.02040	.65320	.15463	4.22400	-.05150	-.00040	.00030	.00090
13.065	17.110	.00000	.71950	-.01310	.69150	.19915	3.47240	-.07460	-.00270	.00020	.00230
13.068	19.120	-.01000	.74990	-.00830	.71130	.23775	2.99170	-.08770	-.00330	.00130	.00220
13.032	21.130	.00000	.75840	-.00210	.70810	.27150	2.60820	-.09980	-.00060	.00080	.00090
13.072	23.190	.00000	.78870	.00240	.72400	.31281	2.31470	-.11030	.00040	.00030	.00080
13.068	25.290	.00000	.82750	-.00090	.74860	.35277	2.12190	-.11020	.00090	.00050	-.00210
GRADIENT		.00000	.04227	-.00091	.04209	.00069	2.95670	-.00098	-.00002	.00006	-.00011

RUN NO. 55/ 0 RN/L = 5.91 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.460	-2.160	.00000	-.09940	.00820	-.09910	.01194	-8.29460	-.00240	.00010	.00010	.00030
19.466	-1.080	.00000	-.05410	.00920	-.05390	.01024	-5.26270	-.00410	.00010	.00020	.00010
19.456	.030	.00000	-.00650	.00990	-.00650	.00994	-.65370	-.00520	.00010	.00020	.00020
19.440	1.160	.00000	.04010	.00920	.03990	.01005	3.96990	-.00650	.00000	.00030	.00100
19.424	2.270	.00000	.08610	.00800	.08570	.01140	7.51590	-.00750	.00000	.00030	.00100
19.381	3.360	.00000	.13390	.00530	.13340	.01314	10.14900	-.00780	.00010	.00030	.00070
19.420	4.450	.00000	.17850	.00210	.17780	.01598	11.12600	-.00750	-.00010	.00020	.00110
19.414	6.730	.00000	.28020	-.00860	.27930	.02424	11.52300	-.00800	-.00010	.00020	.00120
19.450	8.920	.00000	.38280	-.02390	.38190	.03575	10.68200	-.00900	-.00010	.00030	.00100
19.394	11.160	.00000	.48490	-.04300	.48410	.05165	9.37260	-.00870	-.00010	.00030	.00070
19.404	13.420	.00000	.58980	-.06620	.58910	.07247	8.12900	-.00840	-.00020	.00040	.00040
19.384	15.540	.00000	.68190	-.02380	.66340	.15976	4.15220	-.05150	-.00020	.00040	-.00020
19.341	17.640	.00000	.73970	-.01640	.70990	.20850	3.40470	-.07510	.00100	-.00070	.00210
19.335	19.690	.00000	.76530	-.01460	.72540	.24416	2.97110	-.08440	.00090	-.00080	.00040
19.361	21.650	.01000	.75230	-.00740	.70200	.27064	2.59380	-.09540	.00620	-.00200	-.00390
19.361	23.700	.01000	.77840	-.00310	.71400	.31006	2.30280	-.10580	.00310	-.00050	-.00340
19.358	25.780	.00000	.83010	-.00480	.74960	.35677	2.10100	-.11150	.00050	.00030	-.00210
GRADIENT		.00000	.04208	-.00090	.04192	.00063	3.14448	-.00081	-.00002	.00002	.00014

WING 1 25-55-0008

AMES 12-086 (LA65)

(JNC007) (18 APR 77)

REFERENCE DATA

SREF = .0535 SQ. M. XMRP = .1215 M. XB
 LREF = .1852 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 55.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 54/ 0 RN/L = 7.88 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
25.933	-2.230	.00000	-.10360	.00750	-.10320	.01157	-8.91780	-.00190	.00020	.00030	-.00050
25.920	-1.140	.00000	-.06020	.00880	-.06000	.01002	-5.98900	-.00350	.00010	.00040	-.00060
25.894	.000	.00000	-.01240	.00940	-.01240	.00939	-1.32270	-.00380	.00020	.00040	-.00080
25.900	1.130	.00000	.03290	.00900	.03270	.00968	3.38110	-.00490	.00010	.00040	-.00080
25.894	2.270	.00000	.08290	.00720	.08260	.01053	7.83800	-.00580	.00010	.00040	-.00080
25.890	3.440	.00000	.13190	.00480	.13130	.01265	10.38700	-.00620	.00010	.00050	-.00110
25.831	4.600	.00000	.18370	.00080	.18300	.01548	11.82100	-.00610	.00020	.00060	-.00130
25.854	6.930	.00000	.28740	-.01060	.28660	.02420	11.84200	-.00730	.00010	.00040	-.00090
25.772	9.210	.00000	.39180	-.02640	.39100	.03663	10.67300	-.00680	.00000	.00060	-.00080
25.805	11.580	.00000	.50030	-.04730	.49960	.05404	9.24570	-.00710	.00000	.00060	.00020
25.802	13.870	-.01000	.60370	-.06420	.60150	.08239	7.29970	-.01010	.00160	.00310	-.00460
25.792	16.080	.00000	.70010	-.02450	.67950	.17035	3.98880	-.05630	.00130	.00050	-.00150
25.766	18.090	.00000	.73830	-.01270	.70570	.21719	3.24920	-.08740	.00050	.00060	-.00080
25.900	20.180	.01000	.75850	-.00980	.71530	.25250	2.83290	-.09780	.00360	-.00020	-.00320
25.812	22.180	.03000	.77010	-.00780	.71600	.28356	2.52510	-.10250	.00860	-.00140	-.00810
25.776	24.270	.01000	.80070	-.01000	.73400	.32003	2.29360	-.10430	.00210	-.00040	-.00620
25.808	26.390	.01000	.83570	-.00710	.75180	.36506	2.05940	-.11250	.00000	-.00010	-.00250
	GRADIENT	.00000	.04203	-.00096	.04187	.00057	3.25916	-.00062	-.00000	.00003	-.00011

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS 11

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AMES 12-086 (LA65)

(JNC008) (18 APR 77)

REFERENCE DATA

SREF = .0515 SQ. M. XMRP = .0999 M. XB
 LREF = .1739 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 45.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 59/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
13.098	-2.120	.00000	-.09860	.00840	-.09820	.01204	-8.15470	-.0.960	.00030	.00030	-.00160
13.098	-1.030	.00000	-.05200	.00970	-.05180	.01059	-4.88850	-.01010	.00030	.00020	-.00140
13.101	.030	.00000	-.00440	.01060	-.00440	.01058	-.42030	-.01090	.00030	.00020	-.00120
13.062	1.140	.00000	.04210	.00970	.04190	.01052	3.97940	-.01070	.00030	.00030	-.00140
13.039	2.220	.00000	.08950	.00860	.08910	.01210	7.36080	-.01090	.00030	.00040	-.00150
13.072	3.320	.00000	.13750	.00590	.13700	.01380	9.92200	-.00920	.00030	.00040	-.00160
13.072	6.540	.00000	.28140	-.00760	.28050	.02447	11.46100	-.00660	.00050	.00050	-.00210
13.072	8.680	.00000	.38320	-.02240	.38220	.03560	10.73400	-.00300	.00060	.00050	-.00200
13.068	10.930	.00000	.48960	-.04250	.48880	.05111	9.56340	.00050	.00080	.00050	-.00220
13.045	13.060	.00000	.59260	-.05690	.59010	.07841	7.52590	-.00100	.00180	.00400	-.00630
13.042	15.220	.00000	.69410	-.05950	.68530	.12482	5.49060	-.01590	.00800	.00910	-.01800
13.022	17.200	.00000	.73600	-.01450	.70740	.20385	3.47000	-.06740	.00160	.00060	-.00310
13.022	19.280	.00000	.74320	-.00350	.70270	.24204	2.90340	-.09080	-.00110	.00090	-.00330
13.016	21.300	.00000	.77890	-.00350	.72700	.27963	2.59970	-.09400	.00160	.00050	-.00370
13.042	23.340	.00000	.80450	-.00620	.74120	.31299	2.36800	-.09430	.00010	.00050	-.00330
13.019	25.330	.02000	.80890	-.00400	.73280	.34242	2.14020	-.09950	.00980	.00120	-.01660
GRADIENT		.00000	.04339	-.00044	.04322	.00035	3.45514	-.00000	.00000	.00003	-.00001

RUN NO. 58/ 0 RN/L = 5.92 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.473	-2.190	.00000	-.10200	.00740	-.10170	.01134	-8.96900	-.00840	.00050	.00010	-.00240
19.515	-1.070	.00000	-.05730	.00870	-.05710	.00977	-5.84190	-.00780	.00020	.00010	-.00190
19.469	.060	.00000	-.00760	.00960	-.00760	.00955	-.79940	-.00880	.00020	.00020	-.00140
19.473	1.160	.00000	.03870	.00910	.03850	.00986	3.90840	-.00890	.00020	.00020	-.00130
19.410	3.450	.00000	.13940	.00470	.13880	.01305	10.63500	-.00710	.00030	.00030	-.00160
19.466	4.470	.00000	.18540	.00130	.18480	.01569	11.77400	-.00620	.00030	.00030	-.00170
19.446	6.740	.00000	.28580	-.00950	.28490	.02414	11.80200	-.00320	.00050	.00030	-.00160
19.476	9.010	.00000	.39750	-.02630	.39670	.03633	10.91900	-.00160	.00060	.00030	-.00190
19.466	11.350	.00000	.51030	-.04810	.50980	.05324	9.57450	.00220	.00060	.00040	-.00210
19.475	13.580	.00000	.61410	-.07250	.61400	.07370	8.33060	.00630	.00070	.00040	-.00220
19.450	15.800	.00000	.71400	-.06640	.70510	.13045	5.40540	-.01280	.00950	.00940	-.01860
19.397	17.790	.00000	.75670	-.02030	.72670	.21189	3.42950	-.07630	.00440	.00080	-.00350
19.371	19.800	-.02000	.75070	-.01450	.71130	.24063	2.95570	-.08250	-.01370	.00460	-.00180
19.361	21.810	-.01000	.75960	-.00920	.70860	.27364	2.58960	-.09700	-.00830	.00270	-.00110
19.420	23.970	.00000	.80400	-.00720	.73750	.32009	2.30410	-.09750	-.00100	.00110	-.00370
19.371	25.920	.03000	.80960	-.00570	.73060	.34885	2.09440	-.07970	.01160	.00100	-.01620
GRADIENT		.00000	.04328	-.00097	.04313	.00072	3.26855	.00030	-.00001	.00003	.00008

WING I 25-45-0008

AMES 12-086 (LA65)

(JNC008) (18 APR 77)

REFERENCE DATA

SREF = .0515 SQ. M. XMRP = .0999 M. XB
 LREF = .1739 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 45.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 57/ 0 RN/L = 7.92 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
26.002	-2.280	.00000	-.10880	.00670	-.10840	.01101	-9.84900	-.0.800	.00020	.00020	-.00050
26.074	-1.150	.00000	-.06040	.00860	-.06020	.00979	-6.14930	-.00870	.00030	.00020	-.00060
26.113	.000	.00000	-.01170	.00940	-.01170	.00941	-1.24480	-.00860	.00020	.00020	-.00080
26.038	1.170	.00000	.03930	.00880	.03910	.00956	4.09260	-.00880	.00030	.00020	-.00070
26.051	2.330	.00000	.08870	.00700	.08840	.01055	8.37600	-.00770	.00030	.00020	-.00100
26.005	3.500	.00000	.13950	.00390	.13900	.01239	11.21200	-.00630	.00030	.00020	-.00100
26.002	4.620	.00000	.19060	.00010	.18990	.01544	12.29900	-.00540	.00030	.00030	-.00120
26.012	7.050	.00000	.30420	-.01250	.30340	.02493	12.16900	-.00340	.00040	.00030	-.00130
26.031	9.360	.00000	.41100	-.02940	.41030	.03790	10.82700	-.00020	.00050	.00020	-.00100
25.986	11.790	.00000	.52520	-.05280	.52490	.05557	9.44660	.00420	.00040	.00010	-.00080
25.963	14.220	.00000	.64060	-.08040	.64070	.07947	8.06210	.00800	.00050	.00010	-.00090
25.936	16.450	.00000	.74060	-.06220	.72790	.15002	4.85220	-.01920	.00620	.00490	-.01150
25.936	18.440	.01000	.77930	-.03430	.75020	.21398	3.50570	-.06600	.01070	-.00010	-.00410
25.884	20.350	.02000	.74830	-.01070	.70540	.25017	2.81950	-.09880	.00870	-.00100	-.00470
25.933	22.220	.00000	.72840	-.00920	.67770	.26700	2.53830	-.09750	.00010	.00070	-.00260
25.858	24.500	.01000	.81100	-.01000	.74220	.32718	2.26850	-.10120	.00240	.00070	-.00550
25.887	26.610	.01000	.82870	-.00960	.74520	.36269	2.05460	-.10480	.00500	.00060	-.00630
	GRADIENT	.00000	.04325	-.00098	.04310	.00061	3.42809	.00042	.00001	.00001	-.00010

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AMES 12FT 086-1-12 (LA-65) SHIPS II

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AMES 12-086 (LA65)

(JNC009) (18 APR 77)

REFERENCE DATA

SREF = .0501 SQ. M. XMRP = .0845 M. XB
 LREF = .1664 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 35.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 62/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
13.049	-2.110	.00000	-.10350	.00790	-.10310	.01173	-8.79030	-.0360	.00010	.00100	-.00460
13.029	-1.020	.00000	-.05660	.00910	-.05640	.01014	-5.56870	-.01350	.00000	.00080	-.00450
13.055	.090	.00000	-.00620	.00950	-.00630	.00951	-.65790	-.01390	.00010	.00100	-.00450
13.022	1.120	.00000	.03500	.00930	.03580	.01001	3.57950	-.01250	.00000	.00090	-.00430
13.042	2.190	.00000	.08530	.00760	.08500	.01087	7.81480	-.01210	.00010	.00090	-.00440
13.039	3.330	.00000	.13590	.00480	.13540	.01270	10.66200	-.00940	.00010	.00100	-.00450
13.022	4.370	.00000	.18280	.00130	.18210	.01517	12.00600	-.00900	.00000	.00100	-.00460
13.016	5.430	.00000	.23240	-.00280	.23160	.01917	12.08500	-.00550	.00010	.00100	-.00460
13.026	6.610	.00000	.28500	-.00930	.28420	.02356	12.06400	-.00340	.00010	.00120	-.00500
13.029	8.730	.00000	.38650	-.02430	.38570	.03466	11.12700	.00070	.00010	.00110	-.00480
13.029	10.890	.00000	.49220	-.04410	.49170	.04964	9.90520	.00640	.00010	.00090	-.00470
13.026	13.080	.01000	.59320	-.05410	.59000	.08153	7.23750	.00600	-.00150	-.00250	-.00020
13.019	15.220	.00000	.69810	-.03290	.68220	.15156	4.50130	-.03090	.00180	.00140	-.00600
12.996	17.230	.01000	.73690	-.01990	.70970	.19921	3.56250	-.05500	.00620	-.00020	-.00630
12.970	19.280	.01000	.75830	-.01020	.71910	.24072	2.98730	-.08430	.00420	.00100	-.00820
12.986	21.290	.01000	.78020	-.00900	.73020	.27491	2.65610	-.08900	.00410	.00080	-.00890
12.963	23.290	.02000	.77940	-.01050	.72000	.29859	2.41130	-.09700	.00950	.00030	-.01360
12.967	25.310	.03000	.78880	-.00630	.71570	.33158	2.15860	-.09980	.02170	.00150	-.02970
GRADIENT		.00000	.04416	-.00100	.04400	.00056	3.41609	.00079	-.00000	.00001	.00000

RUN NO. 61/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.643	-2.180	.00000	-.10590	.00740	-.10560	.01138	-9.28070	-.01420	.00010	.00070	-.00280
19.620	-1.110	.00000	-.06110	.00880	-.06090	.00994	-6.12290	-.01260	.00010	.00070	-.00290
19.627	.080	.00000	-.00870	.00950	-.00870	.00946	-.91830	-.01210	.00000	.00070	-.00280
19.614	1.190	.00000	.03990	.00870	.03970	.00952	4.16760	-.01080	.00000	.00080	-.00290
19.695	2.300	.00000	.09120	.00720	.09090	.01062	8.39760	-.01070	.00000	.00070	-.00300
19.676	4.540	.00000	.19070	.00400	.19000	.01546	12.29100	-.00840	.00010	.00080	-.00310
19.643	6.810	.00000	.29510	-.01120	.29440	.02395	12.33700	-.00140	.00010	.00070	-.00330
19.534	9.080	.00000	.40560	-.02310	.40490	.03626	11.16700	.00300	.00010	.00070	-.00340
19.640	11.350	.00000	.51500	-.04970	.51470	.05276	9.75570	.00880	.00000	.00090	-.00340
19.614	13.640	.01000	.62370	-.06260	.62080	.08627	7.19670	.00850	-.00210	-.00390	.00310
19.617	15.900	.00000	.72800	-.05940	.71640	.14227	5.03550	-.01320	.00840	.00620	-.01290
19.584	17.980	.02000	.78250	-.05110	.76000	.19294	3.93910	-.03690	.01920	.00220	-.01190
19.561	20.040	.02000	.81820	-.03220	.77970	.25009	3.11780	-.06520	.01580	.00030	-.00960
19.538	21.990	.01000	.81900	-.01790	.76510	.29012	2.64050	-.08350	.00380	.00120	-.00900
19.624	24.060	.01000	.81010	-.01450	.74560	.31711	2.35130	-.06650	.00020	.00020	-.00430
19.607	25.970	.06000	.80560	-.00550	.72710	.34686	2.09640	-.10300	.02520	.00170	-.03370
GRADIENT		.00000	.04429	-.00102	.04414	.00061	3.40305	.00106	-.00000	.00001	-.00004

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AMES 12-086 (LA65)

(JNC009) (18 APR 77)

REFERENCE DATA

SREF = .0501 SO. M. XMRP = .0845 M. XB
 LREF = .1664 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 35.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 60/ 0 RN/L = 7.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
26.156	-2.290	.00000	-.11170	.00740	-.11130	.01184	-9.40260	-.0310	.00010	.00050	-.00130
26.140	-1.120	.00000	-.06090	.00890	-.06070	.01012	-6.00450	-.01260	.00010	.00050	-.00140
26.140	.040	.00000	-.00960	.00950	-.00960	.00946	-1.01680	-.01220	.00010	.00040	-.00130
26.094	1.210	.00000	.04220	.00900	.04200	.00994	4.22630	-.01180	.00010	.00060	-.00160
26.051	2.370	.00000	.09340	.00730	.09300	.01111	8.37010	-.01070	.00010	.00060	-.00170
26.081	3.590	.00000	.14750	.00400	.14700	.01320	11.13400	-.00790	.00010	.00040	-.00160
26.054	4.700	.00000	.19670	.00000	.19600	.01615	12.14000	-.00580	.00020	.00040	-.00170
26.054	7.140	.00000	.31420	-.01310	.31340	.02603	12.03900	-.00130	.00010	.00040	-.00190
26.084	9.420	.00000	.42040	-.03040	.41970	.03888	10.79400	.00420	.00020	.00060	-.00220
26.077	11.930	.00000	.54200	-.05540	.54170	.05790	9.35630	.01080	.00010	.00050	-.00220
26.048	14.210	.00000	.65320	-.08260	.65350	.08034	8.13440	.01670	.00000	.00030	-.00170
26.015	16.580	.00000	.76430	-.08530	.75680	.13636	5.55020	.00420	.00540	.00510	-.00960
26.018	18.670	.02000	.82580	-.05080	.79860	.21622	3.69350	-.04840	.01530	.00110	-.00770
25.966	20.730	.02000	.84630	-.03890	.80520	.26316	3.05990	-.07410	.00840	.00000	-.00880
25.917	22.650	.01000	.84300	-.02430	.78730	.30228	2.60450	-.08620	.00200	.00030	-.00530
25.940	24.720	.01000	.86070	-.02480	.79220	.33741	2.34790	-.08800	.00180	.00060	-.00510
25.992	26.730	-.05000	.83490	-.01080	.74160	.36134	2.05230	-.10310	-.02170	-.00080	.02580
GRADIENT		.00000	.04416	-.00105	.04401	.00063	3.31041	.00100	.00001	-.00001	-.00006

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING II 35-35-0008

AMES 12-086 (LA65)

(JNC010) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .0878 M. XB
 LREF = .1649 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 35.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 25/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
6.260	-2.030	.00000	-.05330	.01360	-.05280	.01547	-3.40900	-.04950	.00010	.00110	-.00200
6.240	-.960	.00000	.00040	.01610	.00070	.01613	.04260	-.04280	.00000	.00080	-.00090
6.244	.070	.00000	.04230	.01630	.04230	.01640	2.57730	-.04090	.00000	.00050	-.00030
6.237	1.120	.00000	.08900	.01550	.08870	.01719	5.16100	-.04200	.00000	.00070	.00100
6.227	2.150	.00000	.13810	.01440	.13740	.01954	7.03160	-.04160	.00010	.00100	-.00180
6.221	3.190	.00000	.18620	.01200	.18520	.02239	8.27360	-.04300	.00010	.00100	-.00060
6.221	4.250	.00000	.23370	.00860	.23240	.02587	8.98250	-.04070	.00010	.00100	-.00130
6.214	6.350	.00000	.32980	-.00070	.32790	.03577	9.16530	-.03990	.00010	.00110	-.00220
6.211	8.420	.00000	.42800	-.01300	.42530	.04985	8.53240	-.03940	.00000	.00090	-.00040
6.211	10.520	.00000	.54220	-.02410	.53740	.07529	7.13870	-.04000	.00020	.00110	-.00260
6.204	12.610	.00000	.64860	-.02760	.63900	.11471	5.57020	-.04580	.00000	.00070	-.00150
6.214	14.690	.00000	.73390	-.02440	.71610	.16248	4.40750	-.06540	-.00040	.00070	-.00190
6.204	16.750	.00000	.79110	-.01860	.76290	.21013	3.63060	-.08590	-.00040	.00040	-.00080
6.201	18.740	.00000	.82480	-.01150	.78470	.25412	3.08800	-.10330	-.00020	.00050	-.00230
6.188	20.730	.00000	.84770	-.00690	.79520	.29368	2.75770	-.11850	.00050	.00030	-.00170
6.195	22.790	.00000	.86250	-.00790	.79820	.32679	2.44260	-.12290	.00140	.00050	-.00370
6.185	24.730	-.02000	.82990	-.00010	.75380	.34706	2.17200	-.13210	-.02050	-.00020	.02680
GRADIENT	.00000	.00000	.04546	-.00086	.04517	.00160	1.99836	-.00016	.00001	.00002	.00004

RUN NO. 24/ 0 RN/L = 3.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
12.986	-2.090	.00000	-.08320	.00930	-.08280	.01236	-6.70200	-.02360	.00010	.00010	.00170
12.963	-1.040	.00000	-.03570	.01070	-.03550	.01138	-3.12030	-.02520	.00010	.00000	.00160
12.980	.060	.00000	.01170	.01140	.01170	.01146	1.02260	-.02430	.00000	.00030	.00150
12.950	1.160	.00000	.06090	.01070	.06070	.01190	5.09770	-.02500	.00010	-.00010	.00170
12.944	2.270	.00000	.11050	.00930	.11000	.01368	8.04180	-.02450	.00010	.00000	.00120
12.924	3.310	.00000	.15810	.00670	.15750	.01583	9.94680	-.02430	.00010	.00010	.00110
12.960	4.410	.00000	.20990	.00300	.20910	.01911	10.93800	-.02350	.00000	.00000	.00100
12.937	6.580	.00000	.30760	-.00720	.30640	.02811	10.90200	-.01990	.00000	.00000	.00090
12.924	8.760	.00000	.41350	-.02100	.41190	.04225	9.74940	-.01730	.00010	.00050	-.00090
12.921	10.950	.00000	.53570	-.03340	.53230	.06895	7.71990	-.01990	.00050	.00070	-.00140
12.944	13.120	.00000	.64470	-.03750	.63640	.10981	5.79520	-.02770	.00070	.00050	-.00130
12.924	15.240	.00000	.72550	-.03350	.70880	.15837	4.47540	-.04520	-.00070	.00000	.00010
12.904	17.300	.00000	.77540	-.02540	.74780	.20630	3.62510	-.06500	.00020	.00000	-.00030
12.927	19.350	.00000	.80700	-.01670	.76700	.25164	3.04800	-.08760	.00020	-.00010	-.00050
12.930	21.420	.00000	.82330	-.01340	.77130	.28821	2.67620	-.09970	.00070	-.00010	-.00090
12.940	23.400	.00000	.83600	-.01400	.77290	.31921	2.42090	-.10290	.00050	.00040	-.00250
12.917	25.370	-.03000	.81110	-.00660	.73570	.34152	2.15420	-.11040	-.01620	-.00080	.02170
GRADIENT	.00000	.00000	.04491	-.00095	.04472	.00103	2.83160	.00006	-.00001	-.00001	-.00011

WING II 35-35-0008

AMES 12-086 (LA65)

(JNC010) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .0878 M. XB
 LREF = .1649 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 35.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 23/ 0 RN/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
19.620	-2.220	.00000	-.09900	.00760	-.09860	.01140	-8.65350	-.01920	.00020	.00000	.00140
19.548	-1.090	.00000	-.04970	.00920	-.04950	.01015	-4.88320	-.01930	.00030	.00000	.00130
19.538	.050	.00000	.00210	.01000	.00210	.00996	.21360	-.01950	.00020	-.00010	.00100
19.574	1.160	.00000	.05110	.00930	.05090	.01031	4.93240	-.02000	.00010	-.00010	.00130
19.588	2.300	.00000	.10160	.00770	.10120	.01174	8.61470	-.01910	.00010	-.00010	.00090
19.568	3.410	.00000	.15200	.00490	.15140	.01391	10.88500	-.01810	.00010	-.00020	.00080
19.519	4.550	.00000	.20310	.00090	.20240	.01700	11.90600	-.01650	.00020	-.00010	.00060
19.555	6.830	.00000	.31020	-.01080	.30930	.02615	11.82900	-.01350	.00020	-.00020	.00040
19.522	9.140	.00000	.42520	-.02540	.42390	.04243	9.99020	-.01010	.00020	.00010	.00000
19.515	11.400	.00000	.54320	-.03320	.54020	.06894	7.83690	-.01100	.00060	.00030	.00000
19.565	13.680	.00000	.65660	-.04560	.64870	.11097	5.84600	-.01940	.00180	.00100	-.00220
19.519	15.850	.00000	.73640	-.04090	.71960	.16178	4.44780	-.03720	.00280	.00030	-.00160
19.515	17.930	.00000	.78040	-.02870	.75130	.21293	3.52830	-.06410	.00230	-.00010	-.00190
19.483	19.960	.00000	.80450	-.01780	.76230	.25785	2.95630	-.08530	.00240	-.00080	-.00060
19.486	21.980	.00000	.82120	-.01550	.76730	.29299	2.61680	-.09500	.00040	-.00020	-.00050
19.502	24.030	.00000	.83780	-.01780	.77240	.32492	2.37730	-.09930	-.00100	.00030	.00070
19.463	25.930	-.05000	.81250	-.00890	.73460	.34738	2.11480	-.10720	-.02240	-.00130	.03020
	GRADIENT	.00000	.04465	-.00098	.04448	.00083	3.21988	.00034	-.00002	-.00002	-.00011

RUN NO. 22/ 0 RN/L = 7.93 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
26.094	-2.310	.00000	-.11070	.00750	-.11040	.01200	-9.19400	-.01350	.00010	-.00040	.00180
26.028	-1.150	.00000	-.06030	.00340	-.06010	.01064	-5.65250	-.01360	.00010	-.00030	.00150
26.068	.020	.00000	-.00830	.01020	-.00830	.01015	-.81920	-.01370	.00020	-.00030	.00100
26.038	1.180	.00000	.04310	.00970	.04290	.01056	4.05790	-.01340	.00010	-.00030	.00110
26.074	2.330	.00000	.09400	.00810	.09360	.01196	7.83040	-.01390	.00020	-.00020	.00070
26.064	3.510	.00000	.14600	.00500	.14550	.01392	10.45300	-.01160	.00010	-.00010	.00040
26.091	4.710	.00000	.20310	.00050	.20240	.01720	11.76700	-.01050	.00020	-.00010	.00020
25.976	7.080	.00000	.31500	-.01210	.31410	.02682	11.71000	-.00770	.00020	.00000	.00010
26.071	9.470	.00000	.42950	-.02770	.42820	.04335	9.87620	-.00330	.00040	.00040	-.00160
26.051	11.860	.00000	.55160	-.04410	.54890	.07021	7.81880	-.00310	.00050	.00140	-.00220
26.048	14.270	.00000	.67280	-.05380	.65530	.11368	5.85300	-.01070	.00230	.00150	-.00280
25.982	16.480	.00000	.75330	-.04760	.73590	.16803	4.37940	-.03190	.00170	.00020	-.00170
25.976	18.610	.01000	.80210	-.03790	.77230	.22009	3.50890	-.05570	.00350	-.00010	-.00190
25.959	20.590	.00000	.81390	-.02260	.76980	.26512	2.90360	-.08230	.00030	.00010	-.00140
25.982	22.660	.00000	.83290	-.01960	.77610	.30277	2.55350	-.09290	-.00150	.00050	-.00020
25.907	24.760	.00000	.86030	-.02320	.79100	.33923	2.33160	-.09560	-.00180	.00050	-.00120
25.986	26.600	.02000	.82280	-.01540	.74260	.35469	2.09360	-.10590	.01630	.00160	-.01230
	GRADIENT	.00000	.04455	-.00098	.04440	.00074	3.17099	.00042	.00001	.00004	-.00022

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AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING II 35-80-0008

AMES 12-086 (LA65)

(JNC011) (18 APR 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = .0723 SQ. M. XMRP = .3162 M. XB
 LREF = .3215 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

T/C = .080 LESWP = 35.000
 FILSWP = 80.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 65/ 0 RN/L = 3.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
12.917	-2.070	.00000	-.06940	.00800	-.06900	.01050	-6.57820	.0500	.00020	-.00050	.00130
12.878	-.960	.00000	-.03590	.00880	-.03580	.00944	-3.79060	.00620	.00020	-.00040	.00110
12.986	.050	.00000	-.00410	.00940	-.00410	.00944	-.43480	-.00150	.00010	-.00020	.00110
12.924	1.120	.00000	.02810	.00880	.02790	.00931	3.00220	-.00930	.00010	.00000	.00120
12.953	2.190	.00000	.06340	.00790	.06310	.01027	6.14110	-.01860	.00010	.00010	.00090
12.940	3.250	.00000	.09710	.00600	.09660	.01152	8.38060	-.02670	.00010	.00040	.00080
12.930	4.340	.00000	.13190	.00380	.13130	.01381	9.50280	-.03520	.00010	.00030	.00090
12.950	6.520	.00000	.20530	-.00180	.20420	.02155	9.47630	-.05270	.00010	.00030	.00110
12.911	8.630	.00000	.28490	-.00950	.28290	.03433	8.24070	-.07140	.00010	.00060	.00050
12.944	10.860	.00000	.38470	-.01050	.37980	.06220	6.10590	-.09840	.00020	.00040	.00040
12.937	13.040	.00000	.47450	-.01110	.46470	.09526	4.82300	-.12170	.00010	.00020	.00000
12.921	15.250	.00000	.56690	-.01340	.55050	.13616	4.04300	-.14500	-.00020	.00050	.00040
12.950	17.470	.00000	.66520	-.01580	.63930	.18473	3.46060	-.17070	.00020	.00080	.00080
12.891	19.720	.00000	.78910	-.02190	.75020	.24556	3.05520	-.20190	.00160	-.00070	-.00060
12.927	21.930	.02000	.89910	-.02820	.84450	.30964	2.72750	-.22730	.00290	-.00110	-.00610
12.970	24.230	.03000	.99630	-.03460	.92280	.37730	2.44580	-.24750	.00320	-.00100	-.01240
12.934	26.430	.04000	1.10600	-.04130	1.00880	.45533	2.21550	-.27080	.00250	-.00100	-.01670
GRADIENT		.00000	.03147	-.00066	.03132	.00050	2.65546	-.00784	-.00002	.00014	-.00007

RUN NO. 64/ 0 RN/L = 5.92 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.604	-2.160	.00000	-.07080	.00800	-.07040	.01068	-6.59420	.01540	.00020	-.00020	.00080
19.594	-1.030	.00000	-.03710	.00900	-.03700	.00967	-3.82100	.00580	.00020	-.00010	.00080
19.506	.050	.00000	-.00440	.00940	-.00440	.00941	-.46620	-.00150	.00020	.00000	.00080
19.548	1.140	.00000	.02810	.00930	.02790	.00982	2.83940	-.00940	.00020	.00010	.00090
19.492	2.250	.00000	.06190	.00810	.06160	.01049	5.87090	-.01780	.00010	.00020	.00080
19.581	3.380	.00000	.09320	.00630	.09770	.01204	8.11010	-.02660	.00020	.00040	.00060
19.650	4.500	.00000	.13540	.00340	.13470	.01405	9.59150	-.03540	.00020	.00030	.00060
19.604	6.720	.00000	.20740	-.00250	.20630	.02181	9.45930	-.05230	.00010	.00060	.00040
19.296	9.030	-.01000	.30480	-.01070	.30270	.03726	8.12560	-.07620	.00010	.00050	.00070
19.276	11.320	.00000	.40440	-.01260	.39910	.06705	5.95190	-.10260	.00020	.00020	.00060
19.276	13.610	.00000	.49500	-.01330	.48430	.10354	4.67710	-.12660	.00030	.00010	.00050
19.273	15.890	.00000	.59020	-.01550	.57190	.14665	3.89990	-.15060	.00000	.00020	.00090
19.266	18.250	.00000	.70120	-.01880	.67180	.20175	3.32970	-.18010	.00060	.00020	.00060
19.469	20.650	.02000	.81020	-.02480	.76690	.26254	2.92110	-.20700	.00270	-.00110	-.00310
19.237	23.010	.04000	.93990	-.03250	.87780	.33751	2.60090	-.23730	.00410	-.00140	-.00950
19.338	25.350	.06000	1.03070	-.03820	.94780	.40679	2.33000	-.25640	.00350	-.00160	-.01440
19.299	27.690	.06000	1.12920	-.04460	1.02060	.48512	2.10390	-.27450	.00230	-.00120	-.01600
GRADIENT		.00000	.03083	-.00066	.03067	.00052	2.53877	-.00760	-.00000	.00009	-.00003

WING II 35-80-0008

AMES 12-086 (LA65)

(JNC011) (18 APR 77)

REFERENCE DATA

SREF = .0723 SQ. M. XMRP = .3162 M. XB
 LREF = .3215 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 80.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 63/ 0 RN/L = 7.83 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
25.002	-2.240	.00000	-.07520	.00730	-.07490	.01020	-7.34490	.00580	.00030	.00020	-.00010
25.015	-1.130	.00000	-.04130	.00850	-.04110	.00935	-4.40100	.00710	.00020	.00030	.00000
25.972	.030	.00000	-.00520	.00890	-.00520	.00893	-.57750	-.00170	.00020	.00040	.00000
25.972	1.220	.00000	.03080	.00850	.03060	.00913	3.34990	-.01050	.00010	.00050	.00000
25.959	2.340	.00000	.06650	.00740	.06610	.01006	6.57320	-.01910	.00010	.00060	-.00020
25.903	3.430	.00000	.09970	.00560	.09920	.01151	8.62070	-.02710	.00020	.00050	-.00020
25.890	4.650	.00000	.14010	.00270	.13940	.01399	9.96040	-.03680	.00020	.00050	-.00030
25.864	6.930	.00000	.22030	-.00410	.21910	.02250	9.74130	-.05590	.00020	.00080	-.00060
25.834	8.130	.00000	.26700	-.00890	.26550	.02906	9.13750	-.06730	.00010	.00090	-.00060
25.874	9.240	.00000	.30780	-.01230	.30580	.03725	8.20910	-.07690	.00020	.00110	-.00070
25.159	11.690	.00000	.40700	-.01550	.40170	.06728	5.96970	-.10250	.00010	.00020	-.00060
25.310	14.140	.00000	.51220	-.01650	.50070	.10919	4.58530	-.12990	.00020	-.00010	-.00040
25.310	16.550	.00000	.61130	-.01810	.59110	.15680	3.77000	-.15570	-.00060	.00010	.00020
25.162	18.980	.00000	.73060	-.02240	.69820	.21648	3.22500	-.18700	.00090	-.00070	.00040
25.214	21.530	.03000	.83970	-.02850	.79160	.28169	2.81010	-.21620	.00280	-.00140	-.00460
25.280	24.010	.06000	.96340	-.03600	.89470	.35814	2.49120	-.24180	.00450	-.00190	-.01130
25.339	26.500	.08000	1.05350	-.04150	.96130	.43301	2.22000	-.26350	.00290	-.00110	-.01730
25.405	28.950	.09000	1.12970	-.04570	1.01120	.50591	1.99870	-.27350	.00330	-.00010	-.01930
	GRADIENT	.00000	.03114	-.00066	.03099	.00052	2.65112	-.00759	-.00001	.00005	-.00004

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AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING II 35-75-0008

AMES 12-086 (LA65)

(JNC012) (18 APR 77)

REFERENCE DATA

SREF = .0634 SQ. M. XMRP = .2322 M. XB
 LREF = .2542 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 75.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 66/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
13.081	-2.050	.00000	-.08490	.00830	-.08460	.01133	-7.46390	.00080	.00020	-.00050	.00060
13.052	-1.010	.00000	-.04650	.00930	-.04630	.01013	-4.57220	.00530	.00020	-.00040	.00070
13.035	.060	.00000	-.00750	.00970	-.00750	.00969	-.77570	-.00090	.00020	-.00030	.00050
13.035	1.190	.00000	.03280	.00920	.03260	.00993	3.28590	-.00780	.00030	-.00010	.00030
13.042	2.220	.00000	.07120	.00810	.07080	.01081	6.55090	-.01390	.00020	-.00010	.00060
13.052	3.260	.00000	.11120	.00620	.11070	.01252	8.83800	-.01950	.00030	.00000	.00050
13.045	4.250	.00000	.14770	.00370	.14700	.01467	10.01900	-.02500	.00020	.00010	.00000
13.019	6.440	.00000	.22950	-.00420	.22850	.02160	10.57900	-.03770	.00030	.00010	-.00010
13.019	8.480	.00000	.30970	-.01310	.30820	.03265	9.44090	-.05100	.00030	.00080	-.00040
13.026	10.560	.00000	.40850	-.01530	.40430	.05978	6.76400	-.07130	.00020	.00100	-.00090
13.029	12.720	.00000	.51090	-.01640	.50200	.09651	5.20110	-.09150	.00070	.00070	.00020
13.062	14.810	.00000	.60490	-.01700	.59920	.13814	4.26500	-.10970	.00040	.00020	-.00040
13.029	16.950	.00000	.72120	-.02240	.69640	.18878	3.68890	-.13190	.00070	.00030	-.00070
13.009	19.100	.00000	.83580	-.03000	.79960	.24524	3.26040	-.15030	.00050	.00040	-.00140
12.999	21.220	.00000	.94750	-.03760	.89690	.30793	2.91260	-.16870	.00020	.00040	-.00170
12.993	23.330	.00000	1.03210	-.04380	.96510	.36847	2.61920	-.17980	-.00170	.00040	-.00230
12.970	25.370	.00000	1.02950	-.04210	.94830	.40301	2.35300	-.16900	-.00450	.00180	-.00270
GRADIENT		.00000	.03688	-.00072	.03672	.00053	2.93128	-.00575	.00001	.00009	-.00007

RUN NO. 67/ 0 RN/L = 5.87 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.309	-2.040	.00000	-.08130	.00780	-.08090	.01068	-7.57820	.01030	.00030	-.00010	-.00030
19.309	-.910	.00000	-.04060	.00890	-.04040	.00952	-4.24600	.00420	.00030	.00000	-.00010
19.289	.040	.00000	-.00840	.00910	-.00640	.00905	-.71160	-.00130	.00020	.00010	-.00030
19.263	1.150	.00000	.03430	.00860	.03420	.00933	3.66190	-.00770	.00020	.00020	-.00030
19.289	2.210	.00000	.07310	.00760	.07280	.01037	7.01700	-.01380	.00030	.00040	-.00070
19.299	3.270	.00000	.11160	.00540	.11110	.01172	9.47540	-.01990	.00020	.00040	.00010
19.325	4.300	.00000	.14980	.00260	.14920	.01387	10.75400	-.02590	.00020	.00040	.00000
19.299	6.490	.00000	.23110	-.00520	.23020	.02095	10.98900	-.03840	.00020	.00040	-.00020
19.325	8.640	.00000	.31600	-.01520	.31470	.03244	9.69960	-.05190	.00030	.00080	-.00070
19.282	10.890	-.01000	.41620	-.02030	.41260	.05801	7.11290	-.07050	.00020	.00280	-.00370
19.286	13.000	.00000	.51710	-.02000	.50840	.09686	5.24860	-.09240	.00110	.00170	-.00260
19.250	15.180	.00000	.61530	-.01980	.59950	.14212	4.21810	-.11270	.00050	.00090	-.00220
19.253	17.400	.00000	.73130	-.02380	.70490	.19599	3.59670	-.13500	.00100	.00040	-.00160
19.227	19.610	.00000	.84710	-.03160	.80850	.25457	3.17620	-.15440	.00090	.00020	-.00100
19.181	21.800	.00000	.95520	-.03890	.90130	.31872	2.82800	-.17250	.00040	-.00010	.00030
19.187	23.950	.00000	1.03830	-.04500	.96720	.38038	2.54260	-.18230	-.00110	-.00050	.00170
19.214	25.970	.00000	1.03370	-.04430	.94870	.41277	2.29940	-.17230	-.00130	-.00060	.00290
GRADIENT		.00000	.03645	-.00081	.03629	.00052	3.05175	-.00572	-.00001	.00009	.00003

WING II 35-75-0008

AMES 12-086 (LA65)

(JNC012) (18 APR 77)

REFERENCE DATA

SREF = .0634 SQ. M. XMRP = .2322 M. XB
 LREF = .2542 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 75.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 68/ 0 RN/L = 7.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
26.222	-2.140	.00000	-.08530	.00700	-.08490	.01022	-8.31260	.01100	.00030	-.00020	.00000
26.248	-1.050	.00000	-.04780	.00810	-.04770	.00898	-5.30650	.00470	.00020	-.00010	-.00020
26.232	.030	.00000	-.00860	.00870	-.00860	.00867	-.99600	-.00160	.00020	-.00010	-.00020
26.205	1.180	.00000	.03100	.00820	.03090	.00892	3.50110	-.00780	.00020	-.00010	-.00030
26.182	2.270	.00000	.07020	.00680	.06980	.00957	7.29480	-.01400	.00010	.00000	.00020
26.192	3.330	.00000	.10790	.00490	.10750	.01116	9.62510	-.01980	.00010	.00010	.00010
26.166	4.420	.00000	.14920	.00200	.14860	.01353	10.98300	-.02640	.00010	.00010	-.00020
26.159	6.690	.00000	.23780	-.00710	.23700	.02066	11.46900	-.04010	.00020	.00020	-.00060
26.127	8.850	.00000	.32210	-.01760	.32100	.03214	9.98540	-.05350	.00010	.00040	-.00010
26.012	11.110	-.01000	.42520	-.02380	.42180	.05857	7.20180	-.07190	-.00010	.00400	-.00530
26.015	13.360	-.01000	.53040	-.02540	.52190	.09787	5.33230	-.09320	.00150	.00240	-.00420
26.002	15.610	.00000	.63440	-.02160	.61680	.14994	4.11350	-.11700	.00020	.00050	-.00050
25.963	17.880	.00000	.75110	-.02780	.72330	.20413	3.54350	-.13820	-.00050	.00020	.00060
26.048	20.220	.00000	.87300	-.03480	.83120	.26910	3.08870	-.15920	-.00020	-.00030	.00190
26.018	22.450	.00000	.97480	-.04140	.91670	.33410	2.74390	-.17610	.00020	-.00060	.00330
25.972	24.630	.00000	1.03790	-.04650	.96280	.39025	2.46720	-.18020	-.00180	-.00120	.00540
25.966	26.670	-.01000	1.03380	-.04600	.94450	.42292	2.23320	-.17180	-.00400	.00000	.00470
	GRADIENT	.00000	.03565	-.00076	.03550	.00049	3.13318	-.00566	-.00003	.00005	.00001

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING II 35-70-0008

AMES 12-086 (LA65)

(JNC013) (18 APR 77)

REFERENCE DATA

SREF = .0586 SQ. M. XMRP = .1875 M. XB
 LREF = .2225 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 70.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 71/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
13.078	-2.060	.00000	-.08560	.00820	-.08530	.01132	-7.53610	.0430	.00030	.00040	-.00160
13.058	-1.040	.00000	-.04580	.00900	-.04570	.00987	-4.62680	-.00060	.00030	.00040	-.00150
13.052	.050	.00000	-.00490	.00940	-.00490	.00937	-.52350	-.00530	.00030	.00060	-.00160
13.075	1.150	.00000	.03730	.00890	.03710	.00968	3.83870	-.01040	.00040	.00070	-.00170
13.065	2.240	.00000	.08010	.00750	.07970	.01061	7.51360	-.01460	.00030	.00080	-.00190
13.065	3.290	.00000	.12220	.00560	.12160	.01265	9.61700	-.01940	.00020	.00060	-.00120
13.035	4.340	.00000	.16460	.00280	.16390	.01523	10.76000	-.02410	.00020	.00060	-.00080
13.094	5.460	.00000	.20780	-.00130	.20700	.01853	11.17000	-.02830	.00020	.00060	-.00060
13.088	6.490	.00000	.24870	-.00580	.24780	.02233	11.09400	-.03260	.00010	.00060	-.00100
13.091	8.620	.00000	.33880	-.01690	.33750	.03405	9.91100	-.04150	.00020	.00090	-.00120
13.091	10.820	.00000	.44690	-.02330	.44340	.06106	7.26070	-.05760	.00030	.00120	-.00180
13.081	13.040	.00000	.55330	-.02050	.54370	.10485	5.18540	-.07330	.00080	.00080	-.00350
13.058	15.130	.00000	.64700	-.02200	.63030	.14759	4.27090	-.08690	.00060	.00100	-.00250
13.055	17.290	.00000	.75860	-.02530	.73180	.20126	3.63620	-.10300	.00000	.00110	-.00180
13.045	19.490	.00000	.85720	-.03120	.81850	.25559	3.19010	-.11290	-.00010	.00110	-.00160
13.062	21.590	.00000	.92270	-.03760	.87180	.30459	2.86220	-.11160	-.00190	.00150	-.00080
13.055	23.630	.00000	.94430	-.03630	.87960	.34530	2.54730	-.11430	.00140	.00140	-.00270
13.039	25.670	.00000	.98350	-.03600	.90200	.39356	2.29200	-.12180	.00190	.00100	-.00290
GRADIENT		.00000	.03899	-.00083	.03883	.00062	3.04503	-.00440	-.00002	.00004	.00009

RUN NO. 70/ 0 RN/L = 5.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.512	-2.100	.00000	-.08750	.00740	-.08720	.01058	-8.24450	.00480	.00030	.00030	-.00100
19.515	-1.060	.00000	-.04710	.00860	-.04700	.00944	-4.97260	-.00050	.00030	.00040	-.00110
19.499	.030	.00000	-.00650	.00880	-.00650	.00832	-.73640	-.00480	.00030	.00050	-.00120
19.496	1.190	.00000	.03260	.00830	.03840	.00911	4.21690	-.01010	.00030	.00050	-.00120
19.555	2.260	.00000	.07960	.00700	.07930	.01013	7.82280	-.01470	.00020	.00060	-.00150
19.525	3.400	.00000	.12340	.00470	.12290	.01203	10.21400	-.01920	.00030	.00070	-.00160
19.496	4.470	.00000	.16530	.00150	.16470	.01441	11.43100	-.02320	.00020	.00080	-.00180
19.515	6.710	.00000	.25440	-.00760	.25360	.02215	11.44700	-.03240	.00020	.00080	-.00200
19.466	8.900	.00000	.34970	-.02020	.34870	.03415	10.21100	-.04240	.00020	.00130	-.00220
19.496	11.160	.00000	.45580	-.02960	.45290	.05918	7.65270	-.05680	.00040	.00180	-.00270
19.489	13.370	.00000	.55890	-.02550	.54970	.10441	5.26510	-.07650	.00050	.00110	-.00270
19.466	15.670	.00000	.66720	-.02590	.64940	.15526	4.18270	-.09080	.00070	.00100	-.00430
19.473	17.930	.00000	.78070	-.03040	.75210	.21146	3.55590	-.10310	-.00090	.00100	-.00250
19.522	20.160	.00000	.86880	-.03490	.82770	.26650	3.10460	-.11200	-.00040	.00070	-.00180
19.489	22.360	.00000	.94340	-.04070	.88790	.32124	2.76410	-.11610	.00060	.00080	-.00190
19.515	24.460	.01000	.96970	-.04150	.89980	.36382	2.47330	-.11640	.00360	.00040	-.00300
19.499	26.540	.00000	1.00920	-.04070	.92100	.41453	2.22190	-.12460	.00260	.00040	-.00310
GRADIENT		.00000	.03842	-.00089	.03828	.00059	3.17486	-.00425	-.00001	.00007	-.00012

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AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING II 35-70-0008

AMES 12-086 (LA65)

(JNC013) (18 APR 77)

REFERENCE DATA

SREF = .0586 SQ. M. XMRP = .1875 M. XB
 LREF = .2225 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 70.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 69/ 0 RN/L = 7.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
26.251	-2.260	.00000	-.09300	.00690	-.09270	.01060	-8.74560	.00510	.00030	.00040	-.00080
26.205	-1.100	.00000	-.04980	.00840	-.04960	.00932	-5.32400	-.00020	.00030	.00050	-.00090
26.218	.040	.00000	-.00630	.00900	-.00630	.00897	-.70100	-.00470	.00030	.00050	-.00090
26.222	1.200	.00000	.03790	.00840	.03780	.00918	4.11250	-.01000	.00030	.00060	-.00090
26.199	2.370	.00000	.08390	.00690	.08350	.01034	8.08030	-.01510	.00030	.00060	-.00120
26.182	3.510	.00000	.12700	.00440	.12640	.01219	10.37200	-.01920	.00020	.00060	-.00130
26.166	4.610	.00000	.16950	.00100	.16890	.01459	11.57300	-.02330	.00030	.00050	-.00130
26.143	6.990	.00000	.26900	-.00960	.26820	.02318	11.56700	-.03360	.00010	.00070	-.00160
26.130	9.190	.00000	.35990	-.02250	.35890	.03529	10.17000	-.04320	.00010	.00110	-.00200
26.130	11.540	.00000	.46990	-.03330	.46700	.06139	7.60720	-.05800	.00020	.00180	-.00300
26.127	13.870	.00000	.57680	-.03110	.56740	.10809	5.24940	-.07610	.00110	.00170	-.00330
26.104	16.260	.01000	.68900	-.03250	.66960	.16135	4.14980	-.09150	-.00040	.00080	-.00390
26.104	18.620	.00000	.80350	-.03480	.77260	.22361	3.45510	-.10560	.00090	.00080	-.00250
26.097	21.000	.00000	.89280	-.04090	.84820	.28180	3.00980	-.11240	-.00030	.00120	-.00270
26.041	23.090	.00000	.94420	-.04260	.88530	.33111	2.67370	-.11630	.00210	.00110	-.00360
26.107	25.210	.01000	.98180	-.04420	.90710	.37820	2.39850	-.12050	.00450	.00070	-.00440
26.058	27.340	.01000	1.01560	-.04350	.92210	.42783	2.15530	-.12670	.00240	.00060	-.00460
GRADIENT		.00000	.03829	-.00086	.03814	.00059	3.14775	-.00416	-.00001	.00002	-.00008

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING II 35-65-0008

AMES 12-086 (LA65)

(JNC014) (18 APR 77)

REFERENCE DATA

SREF = .0558 SQ. M. XMRP = .1592 M. XB
 LREF = .2043 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 65.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 74/ 0 RN/L = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
13.035	-2.100	.00000	-.09260	.00760	-.09220	.01100	-8.38540	.00070	-.00020	-.00060	.00180
13.022	-1.040	.00000	-.05150	.00880	-.05130	.00971	-5.28530	-.00340	-.00030	-.00060	.00200
13.029	.040	.00000	-.00870	.00950	-.00870	.00945	-.91920	-.00650	-.00020	-.00050	.00220
12.999	1.140	.00000	.03460	.00880	.03440	.00949	3.62240	-.01020	-.00020	-.00050	.00240
13.022	2.260	.00000	.07890	.00750	.07860	.01063	7.38810	-.01330	-.00030	-.00050	.00230
13.022	3.330	.00000	.12540	.00520	.12490	.01249	10.00500	-.01610	-.00040	-.00050	.00250
13.016	4.390	.00000	.16300	.00290	.16720	.01573	10.63500	-.01930	-.00040	-.00050	.00240
13.035	6.570	.00000	.25900	-.00680	.25800	.02286	11.28600	-.02530	-.00040	-.00050	.00220
13.022	8.720	.00000	.35100	-.01880	.34980	.03458	10.11600	-.03100	-.00040	-.00050	.00230
13.016	10.930	.00000	.46760	-.02470	.46390	.05433	7.21010	-.04480	.00010	-.00050	.00240
13.012	13.120	.00000	.56920	-.02240	.55940	.10739	5.20940	-.05900	-.00030	-.00060	.00240
12.999	15.290	.00000	.66770	-.02700	.65120	.15005	4.33990	-.06870	-.00030	-.00050	.00220
12.993	17.480	.00000	.75790	-.03280	.73270	.19631	3.73260	-.07470	.00060	-.00090	.00350
12.960	19.590	.00000	.82090	-.03770	.78600	.23973	3.27970	-.07660	-.00160	-.00100	.00350
12.967	21.720	-.01000	.88400	-.03960	.83590	.29039	2.87850	-.08330	-.00310	-.00090	.00500
12.986	23.790	.00000	.93150	-.04110	.86890	.33807	2.57030	-.08900	-.00110	-.00090	.00360
12.967	25.890	.00000	.97530	-.04110	.89540	.38891	2.30290	-.09860	.00070	-.00050	.00170
GRADIENT		.00000	.04020	-.00077	.04002	.00069	3.15527	-.00303	-.00003	.00002	.00010

RUN NO. 73/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.637	-2.190	.00000	-.09970	.00720	-.09930	.01098	-9.04240	.00070	-.00020	-.00040	.00160
19.634	-1.100	.00000	-.05570	.00850	-.05550	.00963	-5.76590	-.00310	-.00020	-.00020	.00130
19.634	.030	.00000	-.00920	.00920	-.00920	.00922	-.99820	-.00710	-.00020	-.00030	.00140
19.647	1.170	.00000	.03470	.00850	.03460	.00925	3.73540	-.01000	-.00030	-.00020	.00150
19.643	2.340	.00000	.08290	.00690	.08250	.01032	7.99210	-.01360	-.00030	-.00020	.00120
19.604	3.450	.00000	.12670	.00450	.12620	.01215	10.38500	-.01600	-.00030	-.00020	.00130
19.568	4.540	.00000	.17250	.00110	.17190	.01480	11.61300	-.01910	-.00030	-.00010	.00110
19.597	6.790	.00000	.26720	-.00680	.26630	.02286	11.64900	-.02490	-.00030	-.00010	.00110
19.617	9.150	.00000	.37100	-.02350	.37000	.03578	10.34100	-.03110	-.00030	.00010	.00090
19.617	11.380	.00000	.47710	-.03480	.47460	.05995	7.91640	-.04120	.00030	.00050	.00060
19.617	13.650	.00000	.58090	-.02790	.57110	.10997	5.19290	-.06120	.00060	-.00020	.00050
19.574	15.890	.00000	.67190	-.03140	.65480	.15375	4.25900	-.07090	-.00250	-.00050	-.00060
19.574	18.160	.00000	.76610	-.03920	.74020	.20151	3.67300	-.07130	-.00480	-.00060	.00180
19.579	20.390	.00000	.83790	-.04440	.80090	.25031	3.19960	-.07360	.00000	-.00030	.00090
19.594	22.460	.00000	.85640	-.04120	.81820	.29376	2.78530	-.08080	-.00060	-.00060	.00210
19.522	24.590	.00000	.91770	-.04270	.85220	.34315	2.48360	-.09070	-.00130	-.00030	.00170
19.502	26.720	.00000	.96970	-.04390	.88590	.39681	2.23250	-.10190	-.00180	-.00040	.00230
GRADIENT		.00000	.04030	-.00091	.04015	.00055	3.27050	-.00290	-.00002	.00003	-.00005

WING II 35-65-0008

AMES 12-086 (LA65)

(JNC014) (18 APR 77)

REFERENCE DATA

SREF = .0558 SQ. M. XMRP = .1592 M. XB
 LREF = .2043 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 65.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 72/ 0 RN/L = 7.99 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
26.238	-2.320	.00000	-.10110	.00690	-.10080	.01096	-9.18940	.0010	.00000	-.00020	.00110
26.251	-1.150	.00000	-.05660	.00840	-.05640	.00956	-5.90250	-.00320	.00000	-.00020	.00090
26.163	.020	.00000	-.01010	.00900	-.01010	.00904	-1.11350	-.00680	-.00010	-.00020	.00140
26.173	1.220	.00000	.03720	.00860	.03700	.00943	3.92280	-.01050	-.00020	-.00020	.00130
26.153	2.390	.00000	.08520	.00680	.08480	.01036	8.18980	-.01390	-.00030	-.00020	.00130
26.186	3.560	.00000	.13100	.00430	.13050	.01239	10.53000	-.01680	-.00020	-.00020	.00120
26.212	4.730	.00000	.18130	.00040	.18060	.01532	11.79300	-.02000	-.00030	-.00020	.00110
26.196	7.110	.00000	.28350	-.01110	.28270	.02408	11.73800	-.02640	-.00030	-.00020	.00110
26.235	9.430	.00000	.38440	-.02650	.38360	.03576	10.43400	-.03230	-.00020	-.00030	.00190
26.228	11.850	-.01000	.49370	-.04130	.49170	.06091	8.07270	-.04120	.00050	.00070	.00070
26.232	14.230	.00000	.60420	-.03890	.59520	.11083	5.37050	-.05960	.00240	.00150	-.00150
26.189	16.460	.00000	.67970	-.03450	.66160	.15951	4.14770	-.07410	.00180	.00010	.00050
26.222	18.730	.00000	.74240	-.03920	.71570	.20126	3.55630	-.07400	-.00030	-.00010	.00100
26.235	21.050	.01000	.80000	-.04060	.76120	.24942	3.05190	-.07650	.00410	-.00070	-.00050
26.202	23.160	.00000	.85700	-.04160	.80430	.29888	2.69100	-.08550	.00130	-.00060	.00010
26.232	25.410	.00000	.92510	-.04430	.85460	.35693	2.39440	-.09700	.00090	-.00050	-.00050
26.176	27.600	.00000	.98120	-.04700	.89130	.41286	2.15890	-.10790	-.00010	-.00030	.00040
	GRADIENT	.00000	.04000	-.00091	.03986	.00061	3.19224	-.00287	-.00005	-.00000	.00002

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS 11

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WING 11 35-60-0008

AMES 12-086 (LA65)

(JNC015) (18 APR 77)

REFERENCE DATA

SREF = .0538 SQ. M. XMRP = .1394 M. XB
 LREF = .1923 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 60.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 77/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
14.650	-2.050	.00000	-.08630	.00850	-.08600	.01154	-7.45190	.0090	-.00030	.00050	.00290
14.827	-1.040	.00000	-.04490	.01010	-.04470	.01096	-4.07720	-.00210	-.00020	.00060	.00300
14.755	.050	.00000	-.00040	.01030	-.00050	.01032	-.04420	-.00480	-.00030	.00070	.00290
14.778	1.150	.00000	.04360	.01000	.04340	.01092	3.97420	-.00740	-.00040	.00070	.00270
14.748	2.190	.00000	.08650	.00890	.08610	.01205	7.14280	-.00960	-.00030	.00070	.00250
14.768	3.300	.00000	.13430	.00620	.13370	.01391	9.61640	-.01100	-.00040	.00070	.00230
14.781	4.340	.00000	.17290	.00350	.17210	.01656	10.39400	-.01250	-.00050	.00080	.00190
14.702	6.470	.00000	.26530	-.00600	.26430	.02392	11.05000	-.01520	-.00040	.00080	.00160
14.725	8.560	.00000	.35680	-.01830	.35560	.03496	10.17100	-.01980	-.00070	.00070	.00150
14.719	10.700	.00000	.45670	-.02890	.45410	.05650	8.03730	-.02590	-.00080	-.00010	.00250
14.742	12.840	.00000	.56310	-.02950	.55560	.09635	5.76670	-.04000	.00010	.00080	.00080
14.771	14.920	.00000	.62530	-.02340	.61030	.13833	4.41170	-.05020	-.00110	.00040	.00180
14.758	16.910	.00000	.64580	-.01120	.62110	.17718	3.50560	-.06710	.00270	.00040	.00760
14.774	18.980	.00000	.70720	-.01070	.67220	.21926	3.05740	-.07960	.00170	.00060	.00020
14.725	21.090	.00000	.77170	-.01040	.72380	.26793	2.70130	-.09370	.00200	.00040	-.00060
14.742	23.160	-.01000	.80290	-.00930	.74190	.30712	2.41550	-.10140	-.00110	.00160	.00120
14.719	25.140	-.01000	.81580	-.00700	.74150	.34022	2.17940	-.10720	-.00140	.00060	.00340
GRADIENT	.00000	.00000	.04078	-.00081	.04061	.00076	2.93830	-.00209	-.00003	.00004	-.00016

RUN NO. 76/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.702	-2.080	.00000	-.08920	.00800	-.08780	.01122	-7.82970	.00100	-.00010	.00030	.00180
19.673	-1.040	.00000	-.04590	.00950	-.04570	.01031	-4.43080	-.00240	-.00020	.00040	.00190
19.729	.030	.00000	-.00450	.01000	-.00450	.01001	-.44870	-.00460	-.00020	.00040	.00170
19.653	1.140	.00000	.04230	.00920	.04210	.01005	4.19080	-.00580	-.00040	.00050	.00170
19.630	2.240	-.01000	.08860	.00780	.08930	.01126	7.83620	-.00920	-.00040	.00040	.00250
19.611	3.360	-.01000	.13390	.00550	.13330	.01729	10.03400	-.01090	-.00040	.00040	.00230
19.647	4.400	-.01000	.17550	.00240	.17480	.01587	11.01400	-.01290	-.00040	.00040	.00240
19.591	6.630	-.01000	.27000	-.00740	.26910	.02379	11.30900	-.01590	-.00050	.00040	.00210
19.579	8.790	.00000	.37040	-.02180	.36940	.03500	10.55400	-.02060	-.00060	.00040	.00170
19.591	10.960	.00000	.46960	-.03510	.46770	.05474	8.54490	-.02550	-.00080	-.00110	.00350
19.542	13.170	.00000	.57960	-.04110	.57370	.09205	6.23240	-.03920	-.00280	-.00220	.00510
19.522	15.310	.00000	.65830	-.02750	.64220	.14729	4.32000	-.05800	-.00210	.00010	.00010
19.548	17.420	.00000	.71020	-.02290	.68450	.19069	3.58960	-.07180	.00040	.00070	-.00080
19.555	19.440	.00000	.72870	-.01600	.69250	.22739	3.04560	-.08130	.00410	.00050	-.00170
19.548	21.530	.00000	.78000	-.01550	.73130	.27184	2.69010	-.09350	.00130	-.00050	-.00040
19.574	23.620	.00000	.81490	-.01210	.75150	.31539	2.38260	-.10350	-.00190	.00110	-.00180
19.588	25.600	.00000	.82160	-.00910	.74490	.34682	2.14780	-.11000	-.00040	.00090	-.00130
GRADIENT	-.00198	.00000	.04085	-.00089	.04068	.00070	3.07885	-.00208	-.00005	.00001	.00011

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AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING II 35-60-0008

AMES 12-086 (LA65)

(JNC015) (18 APR 77)

REFERENCE DATA

SREF = .0538 SQ. M. XMRP = .1394 M. XB
 LREF = .1923 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 60.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 75/ 0 RN/L = 7.83 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
25.697	-2.190	.00000	-.09260	.00760	-.09220	.01109	-8.32040	.0020	-.00030	.00020	.00180
25.762	-1.100	-.01000	-.04950	.00920	-.04930	.01010	-4.87990	-.00240	-.00030	.00030	.00220
25.789	.030	-.01000	-.00270	.00950	-.00270	.00951	-.28180	-.00530	-.00020	.00030	.00210
25.743	1.160	-.01000	.04520	.00910	.04500	.01000	4.49840	-.00770	-.00040	.00030	.00200
25.756	2.290	-.01000	.09080	.00760	.09040	.01117	8.08980	-.00980	-.00030	.00030	.00180
25.762	3.420	-.01000	.13730	.00500	.13670	.01315	10.40100	-.01190	-.00040	.00030	.00180
25.762	4.510	.00000	.18560	.00130	.18490	.01590	11.62500	-.01370	-.00040	.00030	.00150
25.710	6.800	.00000	.28760	-.00960	.28680	.02452	11.69500	-.01750	-.00040	.00040	.00120
25.710	9.030	-.01000	.38460	-.02410	.38360	.03655	10.49700	-.02070	-.00070	.00030	.00170
25.677	11.330	.00000	.49300	-.04110	.49150	.05648	8.70190	-.02570	-.00090	-.00130	.00410
25.694	13.590	.00000	.60620	-.04520	.59990	.09851	6.08880	-.04070	-.00390	-.00290	.00710
25.690	15.750	.00000	.68340	-.03210	.66640	.15462	4.31000	-.06230	-.00250	-.00020	.00140
25.664	17.950	.00000	.73450	-.02600	.70680	.20169	3.50420	-.07710	-.00130	.00100	-.00070
25.671	20.060	-.01000	.77710	-.02150	.73730	.24638	2.99240	-.09510	-.00180	.00190	-.00230
25.661	21.900	.00000	.77770	-.01890	.72870	.27251	2.67390	-.09500	.00150	.00210	-.00480
25.654	24.020	-.01000	.82150	-.01990	.75840	.31626	2.39810	-.10110	-.00140	.00160	-.00200
25.713	26.080	-.01000	.84420	-.01700	.76570	.35597	2.15110	-.10800	-.00210	.00240	-.00050
GRADIENT	.00000	.00000	.04145	-.00093	.04129	.00071	3.14681	-.00208	-.00002	.00001	-.00006

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DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS 11

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WING 11 35-55-0008

AMES 12-086 (LA65)

(JNC016) (18 APR 77)

REFERENCE DATA

SREF = .0524 SQ. M. XMRP = .1245 M. XB
 LREF = .1839 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 55.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 80/ 0 RN/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
12.868	-2.050	-.01000	-.08140	.01060	-.08090	.01349	-5.99810	-.0260	.00060	.00140	.00340
12.868	-.880	-.01000	-.03260	.01210	-.03240	.01262	-2.56930	-.00480	.00060	.00160	.00360
12.881	.080	-.01000	.01010	.01240	.01010	.01242	.81530	-.00740	.00060	.00150	.00310
12.881	1.160	-.01000	.05280	.01200	.05250	.01310	4.00650	-.00850	.00050	.00160	.00350
12.868	2.190	-.01000	.09990	.01030	.09940	.01407	7.06390	-.01090	.00040	.00130	.00460
12.858	3.280	-.01000	.14850	.00760	.14780	.01613	9.16420	-.01150	.00040	.00130	.00470
12.842	4.410	-.01000	.19530	.00420	.19440	.01919	10.13000	-.01130	.00030	.00140	.00430
12.871	6.550	-.01000	.28850	-.00530	.28720	.02760	10.40500	-.01320	.00020	.00130	.00430
12.865	8.630	-.01000	.38430	-.01950	.38270	.03923	9.75540	-.01570	.00020	.00140	.00400
12.855	10.760	-.01000	.49310	-.02990	.49000	.06277	7.80540	-.02040	.00010	-.00020	.00560
12.848	12.880	-.01000	.60330	-.02590	.59390	.10931	5.43330	-.03780	-.00080	.00100	.00480
12.819	15.020	-.01000	.67890	-.02280	.66150	.15388	4.29630	-.05120	-.00080	.00120	.00430
12.832	17.110	-.01000	.73870	-.01660	.71090	.20138	3.52990	-.06960	.00340	.00040	.00440
12.806	19.160	.00000	.79000	-.01670	.75170	.24352	3.06680	-.07940	.00340	-.00020	.00410
12.789	21.140	.00000	.80950	-.01270	.75960	.28010	2.71190	-.09050	.00180	-.00060	.00410
12.816	23.290	.00000	.81280	-.00800	.74970	.31395	2.38810	-.09870	-.00190	-.00020	.00480
12.786	25.200	-.01000	.84580	-.00550	.76760	.35513	2.16150	-.10980	-.00100	.00070	.00670
GRADIENT	.00000	.00000	.04300	-.00102	.04279	.00087	2.61471	-.00144	-.00005	-.00003	.00021

RUN NO. 79/ 0 RN/L = 5.91 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.433	-2.100	.00000	-.03550	.00770	-.09510	.01123	-8.47440	-.00230	.00050	.00090	-.00340
19.410	-1.040	.00000	-.05070	.00910	-.05050	.01006	-5.02120	-.00500	.00060	.00090	-.00350
19.401	.050	.00000	-.00510	.00960	-.00510	.00959	-.53490	-.00640	.00040	.00100	-.00370
19.417	1.200	.00000	.04500	.00830	.04480	.00982	4.55060	-.00850	.00040	.00100	-.00390
19.404	2.270	.00000	.09060	.00900	.09020	.01157	7.79480	-.01050	.00040	.00100	-.00400
19.359	3.420	.00000	.13930	.00500	.13930	.01330	10.47000	-.01080	.00030	.00110	-.00420
19.368	4.470	.00000	.18570	.00150	.18600	.01601	11.62200	-.01210	.00030	.00090	-.00340
19.355	6.660	.00000	.28250	-.00970	.28160	.02410	11.68700	-.01420	.00020	.00110	-.00380
19.407	8.890	.00000	.38740	-.02420	.38650	.03600	10.73700	-.01540	.00010	.00100	-.00370
19.443	11.110	.00000	.49660	-.03370	.49500	.05659	8.73150	-.01950	-.00010	.00030	-.00220
19.460	13.360	.00000	.61020	-.03220	.60110	.10963	5.49310	-.03780	-.00040	.00080	-.00260
19.401	15.450	.00000	.68230	-.02570	.66500	.15718	4.23060	-.05480	.00090	.00100	-.00280
19.410	17.560	.01000	.73470	-.02240	.70720	.20030	3.53070	-.06280	.00540	.00040	-.00440
19.359	19.700	.00000	.79700	-.02440	.75860	.24576	3.02690	-.07910	.00240	.00050	-.00320
19.348	21.700	.00000	.82260	-.02070	.77190	.28500	2.70850	-.08380	.00140	.00030	-.00240
19.450	23.750	.00000	.83030	-.01880	.76760	.31716	2.42020	-.09530	.00120	.00040	-.00250
19.368	25.810	.00000	.85030	-.01940	.77400	.35269	2.19450	-.09940	.00070	.00090	-.00200
GRADIENT	.00000	.00000	.04289	-.00092	.04273	.00074	3.22985	-.00146	-.00004	.00001	-.00006

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AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING II 35-55-0008

AMES 12-086 (LA65)

(JNC016) (18 APR 77)

REFERENCE DATA

SREF = .0524 SQ. M. XMRP = .1245 M. XB
 LREF = .1839 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 55.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 78/ 0 RN/L = 7.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
26.110	-2.160	.00000	-.09950	.00780	-.09910	.01152	-8.59960	-.0240	.00040	.00060	-.00260
26.081	-1.120	.00000	-.05670	.00940	-.05650	.01049	-5.38570	-.00500	.00030	.00060	-.00280
26.100	.030	.00000	-.00650	.01000	-.00650	.00998	-.65390	-.00650	.00040	.00060	-.00280
26.136	1.170	.00000	.04190	.00930	.04170	.01017	4.10380	-.00890	.00040	.00060	-.00240
26.100	2.280	.00000	.08820	.00770	.08790	.01123	7.82250	-.00980	.00030	.00070	-.00270
26.113	3.460	.00000	.14010	.00500	.13960	.01342	10.39900	-.01140	.00020	.00070	-.00270
26.182	4.610	.00000	.19080	.00090	.19010	.01625	11.70000	-.01240	.00020	.00070	-.00280
26.159	6.930	.00000	.29520	-.01050	.29530	.02537	11.64200	-.01430	.00030	.00060	-.00300
26.117	9.210	.00000	.40090	-.02650	.40000	.03804	10.51700	-.01590	.00010	.00060	-.00200
26.107	11.490	.00000	.50520	-.04580	.50420	.05577	9.04000	-.01760	.00020	.00000	-.00110
26.068	13.810	.00000	.63030	-.05340	.62480	.09858	6.33800	-.02930	-.00070	.00120	-.00260
26.015	16.020	.00000	.70350	-.03590	.68620	.15966	4.29780	-.05160	.00190	.00160	-.00600
25.972	20.270	.01000	.81190	-.02930	.77180	.25384	3.04040	-.08120	.00210	.00030	-.00330
25.913	22.260	.01000	.82880	-.02690	.77720	.28895	2.68980	-.09130	.00310	-.00020	-.00320
26.002	24.300	.01000	.83210	-.02200	.76750	.32235	2.38080	-.09750	.00190	.00040	-.00520
26.051	26.360	.01000	.84580	-.02250	.76780	.35538	2.16050	-.10120	.00280	.00050	-.00680
	GRADIENT	.00000	.04285	-.00101	.04270	.00068	3.17946	-.00145	-.00003	.00002	-.00001

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AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING II 35-45-0008

AMES 12-086 (LA65)

(JNC017) (18 APR 77)

REFERENCE DATA

SREF = .0504 SQ. M. XMRP = .1031 M. XB
 LREF = .1725 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 45.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 82/ 0 RN/L = 5.92 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.476	-2.150	.00000	-.10440	.00690	-.10400	.01084	-9.59580	-.0730	.00040	.00080	-.00240
19.433	-1.070	.00000	-.05660	.00810	-.05650	.00919	-6.14790	-.00820	.00040	.00080	-.00230
19.440	.030	.00000	-.00810	.00890	-.00810	.00898	-.91670	-.00940	.00040	.00080	-.00240
19.414	1.180	.00000	.04250	.00820	.04240	.00911	4.65020	-.00990	.00040	.00090	-.00250
19.440	2.300	.00000	.09330	.00650	.09290	.01031	9.01520	-.01050	.00040	.00090	-.00270
19.394	3.390	.00000	.14110	.00370	.14060	.01199	11.72400	-.01030	.00040	.00100	-.00260
19.397	4.520	.00000	.18900	.00010	.18840	.01497	12.59000	-.00980	.00040	.00100	-.00290
19.401	6.730	.00000	.28950	-.01070	.28890	.02328	12.40800	-.00850	.00040	.00100	-.00290
19.404	9.000	.00000	.40190	-.02780	.40130	.03537	11.34700	-.00760	.00040	.00110	-.00330
19.407	11.270	.00000	.51560	-.04540	.51460	.05626	9.14570	-.00740	-.00010	.00320	-.00720
19.414	13.550	.00000	.63170	-.04790	.62530	.10147	6.16250	-.01850	.00340	.00410	-.00940
19.417	15.700	.00000	.71230	-.03680	.69570	.15732	4.42230	-.04100	.00330	.00170	-.00560
19.433	17.790	.00000	.76260	-.02460	.73370	.20959	3.50040	-.06270	.00140	.00100	-.00440
19.381	19.810	.00000	.79690	-.01900	.75620	.25223	2.99800	-.08070	.00360	.00030	-.00330
19.440	21.880	.02000	.80980	-.01560	.75730	.28724	2.63660	-.09120	.00850	-.00040	-.00840
19.417	23.900	.01000	.81850	-.01120	.75290	.32133	2.34300	-.09900	.00310	.00030	-.00470
19.381	25.890	.00000	.82880	-.0080	.75030	.35220	2.13020	-.10280	.00030	-.00010	-.00200
GRADIENT	.00000	.00000	.04413	-.00101	.04399	.00062	3.59765	-.00041	.00000	.00004	-.00008

RUN NO. 81/ 0 RN/L = 7.83 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
25.779	-2.200	.00000	-.10310	.00670	-.10280	.01056	-9.64160	-.00850	.00030	.00050	-.00190
25.785	-1.130	.00000	-.05930	.00820	-.05910	.00933	-6.33400	-.00870	.00030	.00060	-.00200
25.746	-.010	.00000	-.01090	.00650	-.01090	.00863	-1.26400	-.00960	.00040	.00060	-.00200
25.716	1.180	.00000	.04310	.00820	.04290	.00909	4.72030	-.01070	.00030	.00060	-.00150
25.730	2.290	.00000	.09090	.00670	.09060	.01030	8.79560	-.01050	.00040	.00040	-.00120
25.700	3.500	.00000	.14350	.00360	.14300	.01238	11.55200	-.01050	.00030	.00050	-.00130
25.713	4.670	.00000	.19590	-.00050	.19630	.01538	12.76400	-.00360	.00030	.00060	-.00140
25.687	6.980	.00000	.30390	-.01250	.30310	.02454	12.35400	-.00830	.00030	.00060	-.00170
25.720	9.340	.00000	.41650	-.03070	.41810	.03763	11.10800	-.00750	.00030	.00060	-.00140
25.733	11.700	.00000	.53090	-.04990	.52980	.05887	9.00000	-.00610	.00010	.00290	-.00650
25.674	14.080	.00000	.65470	-.05500	.64840	.10584	6.12850	-.01620	.00220	.00230	-.00580
25.628	16.320	.01000	.75510	-.04860	.73840	.16556	4.45990	-.04310	.00070	.00140	-.00700
25.556	18.400	.01000	.78900	-.03860	.76090	.21237	3.58290	-.06100	.00620	.00170	-.00850
25.611	20.420	.01000	.80680	-.02340	.76620	.26024	2.94410	-.08310	.00520	.00000	-.01100
25.621	22.400	.03000	.82010	-.02130	.76630	.29290	2.61620	-.09290	.00980	-.00010	-.01100
25.641	24.500	.02000	.83830	-.01750	.77010	.33170	2.32160	-.10010	.00480	.00100	-.01050
25.644	26.430	.02000	.82140	-.01130	.74050	.35553	2.08230	-.10320	.00170	.00100	-.01010
GRADIENT	.00000	.00000	.04376	-.00104	.04352	.00059	3.50861	-.00024	-.00000	-.00000	.00012

WING III 45-45-0008

AMES 12-086 (LA65)

(JNC018) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .1064 M. XB
 LREF = .1723 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 45.000
 FILSWP = 45.000 TESWP = 15.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 29/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
6.516	-2.020	.00000	-.09570	.00960	-.09530	.01301	-7.32950	-.0770	-.00020	.00020	-.00250
6.510	-.970	.00000	-.04880	.01100	-.04860	.01185	-4.10070	-.01230	-.00020	.00030	-.00270
6.493	.060	.00000	-.00770	.01160	-.00780	.01163	-.66720	-.01150	-.00010	.00020	-.00280
6.503	1.120	.00000	.04180	.01100	.04150	.01181	3.51690	-.01360	-.00010	.00060	-.00290
6.487	2.160	.00000	.09160	.00980	.09110	.01322	6.89180	-.01660	-.00010	.00030	-.00240
6.487	3.220	.00000	.13870	.00720	.13810	.01496	9.23350	-.01800	-.00010	.00060	-.00320
6.480	4.200	.00000	.18370	.00380	.18290	.01722	10.62400	-.01710	-.00020	.00050	-.00270
6.513	6.340	.00000	.28690	-.00540	.28570	.02635	10.84100	-.02150	-.00050	.00080	-.00360
6.513	8.360	.00000	.38590	-.01550	.38400	.04077	9.41870	-.02300	-.00050	.00150	-.00380
6.506	10.450	.00000	.48590	-.02270	.48290	.06597	7.32030	-.02750	-.00050	.00140	-.00340
6.510	12.550	.00000	.57840	-.02800	.57070	.09835	5.80270	-.03410	.00000	.00130	-.00370
6.496	14.580	.00000	.66050	-.02970	.64670	.13750	4.70370	-.04190	.00010	.00150	-.00390
6.483	16.610	.00000	.73690	-.02870	.71440	.18315	3.90040	-.05690	.00020	.00140	-.00420
6.477	18.710	.00000	.79440	-.02510	.76050	.23110	3.29080	-.07250	.00070	.00130	-.00440
6.467	20.670	.00000	.82090	-.01750	.77430	.27337	2.83230	-.08950	.00100	.00100	-.00530
6.464	22.690	.00000	.83500	-.01320	.77550	.30986	2.50290	-.10110	.00020	.00120	-.00210
6.444	24.720	.00000	.86420	-.01450	.79110	.34814	2.27230	-.10620	.00130	.00160	-.00340
GRADIENT		.00000	.04504	-.00092	.04485	.00070	3.02532	-.00154	.00001	.00006	-.00004

RUN NO. 28/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
13.058	-2.090	.00000	-.08910	.01020	-.08870	.01344	-6.60090	-.01380	-.00020	-.00020	.00110
13.045	-1.040	.00000	-.04210	.01070	-.04190	.01149	-3.64920	-.01650	-.00010	-.00010	.00060
13.022	.060	.00000	.00940	.01110	.00940	.01113	.84440	-.01860	-.00010	.00000	.00020
13.032	1.130	.00000	.05270	.01070	.05250	.01172	4.47820	-.01990	-.00020	-.00010	.00070
13.069	2.230	.00000	.10250	.00930	.10210	.01333	7.65050	-.02250	-.00010	-.00010	.00050
13.052	3.290	.00000	.14920	.00640	.14640	.01499	9.90290	-.02280	-.00020	.00000	.00040
13.032	4.360	.00000	.19910	.00320	.19830	.01828	10.84600	-.02460	-.00040	-.00040	.00240
13.025	6.530	.00000	.29320	-.00540	.29800	.02764	10.78200	-.02730	-.00060	-.00010	.00190
13.019	8.660	.00000	.40840	-.01840	.40650	.04326	9.39760	-.02900	-.00040	.00030	-.00030
13.022	10.840	.00000	.51900	-.02750	.51490	.07056	7.29550	-.03610	-.00070	-.00040	.00280
13.012	12.970	.00000	.61190	-.03320	.60380	.10493	5.75370	-.04270	-.00070	-.00040	.00290
12.993	15.100	.00000	.69940	-.03530	.68450	.14815	4.62010	-.05210	-.00170	-.00070	.00440
13.012	17.200	.00000	.76950	-.02940	.74380	.19944	3.72970	-.07110	.00000	-.00030	.00240
13.029	19.270	.00000	.82920	-.02500	.79100	.25007	3.16330	-.09110	.00050	-.00010	.00150
12.996	21.280	.00000	.85500	-.02000	.80480	.29208	2.75560	-.10780	.00430	-.00070	-.00180
13.029	23.320	.00000	.86660	-.01590	.80210	.32840	2.44250	-.11790	.00040	.00030	.00000
13.035	25.350	-.01000	.89020	-.01720	.81180	.36571	2.21990	-.12410	-.00430	.00070	.00510
GRADIENT		.00000	.04440	-.00104	.04421	.00079	2.85943	-.00161	-.00003	-.00002	.00013

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING III 45-45-0008

AMES 12-086 (LA65)

(JNC018) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .1064 M. XB
 LREF = .1723 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 45.000
 FILSWP = 45.000 TESWP = 15.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 27/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
19.696	-2.160	.00000	-.09700	.00810	-.09660	.01180	-8.18630	-.01160	-.00010	-.00010	.00040
19.630	-1.060	.00000	-.04930	.00940	-.04910	.01030	-4.76560	-.01410	-.00010	-.00020	.00060
19.512	.080	.00000	.00640	.01020	.00640	.01018	.62640	-.01960	-.00010	-.00020	.00090
19.627	1.160	.00000	.04850	.00920	.04830	.01017	4.74480	-.01730	-.00020	-.00010	.00030
19.601	2.290	.00000	.09920	.00780	.09880	.01178	8.39080	-.02000	-.00020	-.00010	.00040
19.617	3.400	.00000	.14720	.00510	.14660	.01380	10.62000	-.02030	-.00040	-.00030	.00150
19.604	4.480	.00000	.19730	.00130	.19550	.01674	11.74600	-.02130	-.00040	-.00040	.00200
19.604	6.750	.00000	.30170	-.00350	.30070	.02596	11.58400	-.02300	-.00070	-.00010	.00150
19.584	8.950	.00000	.41420	-.02280	.41270	.04191	9.84740	-.02700	-.00050	.00100	-.00050
19.584	11.210	.00000	.52890	-.03470	.52560	.06879	7.63970	-.03210	.00050	.00130	-.00090
19.588	13.450	.00000	.63080	-.04100	.62300	.10681	5.83310	-.04030	-.00140	-.00050	.00290
19.571	15.640	.00000	.71910	-.04350	.70420	.15201	4.63260	-.05250	-.00150	-.00050	.00280
19.561	17.760	.00000	.79150	-.03850	.76550	.20484	3.73680	-.06920	-.00010	.00000	.00210
19.542	19.900	.00000	.84780	-.03620	.80950	.25451	3.18060	-.08180	.00030	-.00020	.00190
19.529	21.960	.00000	.88830	-.03090	.83540	.30353	2.75220	-.09910	-.00150	.00050	.00090
19.581	23.980	-.01000	.89280	-.02760	.82690	.33765	2.44900	-.10710	-.00590	.00080	.00670
19.525	25.950	-.01000	.88770	-.02560	.80940	.36542	2.21490	-.11570	-.00760	.00050	.00430
GRADIENT	.00000	.00000	.04408	-.00101	.04391	.00075	3.16893	-.00138	-.00005	-.00003	.00020

RUN NO. 26/ 0 RN/L = 7.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
26.258	-2.280	.00000	-.11440	.00710	-.11400	.01168	-9.76290	-.00410	-.00010	-.00020	-.00010
26.225	-1.140	.00000	-.06310	.00910	-.06290	.01037	-6.06180	-.00700	-.00010	-.00010	-.00020
26.173	.020	.00000	-.01330	.00950	-.01330	.00945	-1.40310	-.00880	-.00010	-.00020	-.00010
26.189	1.200	.00000	.04010	.00880	.03990	.00960	4.15230	-.01120	-.00030	-.00020	.00040
26.143	2.310	.00000	.08970	.00720	.08930	.01084	8.23840	-.01270	-.00020	-.00010	.00060
26.179	3.450	.00000	.13970	.00430	.13920	.01267	10.99100	-.01360	-.00020	-.00020	.00030
26.143	4.620	.00000	.19450	-.00010	.19390	.01554	12.47900	-.01450	-.00040	-.00010	.00060
26.146	6.970	.00000	.30710	-.01240	.30640	.02492	12.29200	-.01690	-.00080	.00010	.00110
26.120	9.280	.00000	.41710	-.02760	.41610	.04000	10.40200	-.01970	-.00100	.00110	-.00070
26.145	11.650	.00000	.54180	-.04170	.53900	.06967	7.84930	-.02730	.00040	.00180	-.00180
26.110	13.940	.00000	.64580	-.04770	.63930	.10920	5.84550	-.03540	-.00020	.00050	.00110
26.091	16.200	.00000	.73580	-.05140	.72090	.15588	4.62490	-.04690	.00110	.00050	.00010
26.130	18.410	.00000	.81240	-.05160	.78720	.20760	3.79180	-.06270	.00050	.00020	.00070
26.091	20.550	-.01000	.86930	-.04990	.83120	.25923	3.20630	-.07690	-.00180	.00020	.00240
26.035	22.590	-.01000	.90050	-.04140	.84730	.30770	2.75360	-.09400	-.00260	.00040	.00250
26.169	24.610	-.02000	.90050	-.03510	.83330	.34312	2.42860	-.10530	-.00630	.00070	.00600
26.064	26.580	-.01000	.89790	-.03250	.81750	.37259	2.19420	-.11250	-.00330	.00000	.00570
GRADIENT	.00000	.00000	.04462	-.00104	.04447	.00054	3.43465	-.00150	-.00004	.00001	.00012

WING III 45-80-0008

AMES 12-086 (LA65)

(JNC019) (18 APR 77)

REFERENCE DATA

SREF = .0709 SQ. M. XMRP = .3166 M. XB
 LREF = .3235 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 45.000
 FILSWP = 80.000 TESWP = 15.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 85/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
13.094	-2.040	.00000	-.07210	.00780	-.07190	.01033	-6.94560	.0620	.00000	-.00060	.00080
13.111	-1.020	.00000	-.04150	.00850	-.04130	.00926	-4.46280	.00760	-.00020	-.00050	.00070
13.055	.040	.00000	-.00730	.00890	-.00730	.00886	-.82160	-.00160	-.00020	-.00040	.00060
13.065	1.100	.00000	.02510	.00820	.02490	.00869	2.87090	-.00960	-.00020	-.00040	.00050
13.055	2.170	.00000	.05900	.00720	.05870	.00947	6.20090	-.01970	-.00030	-.00010	.00040
13.035	3.260	.00000	.09530	.00540	.09490	.01082	8.76570	-.02930	-.00020	-.00010	.00030
13.016	4.360	.00000	.13110	.00300	.13050	.01293	10.08600	-.03340	-.00020	-.00010	.00010
13.022	6.460	.00000	.20030	-.00300	.19940	.01955	10.19800	-.05540	-.00010	.00000	-.00010
13.019	8.580	.00000	.28100	-.00950	.27930	.03251	8.59050	-.07760	.00010	.00010	-.00050
13.062	10.790	.00000	.37570	-.01260	.37140	.05793	6.41150	-.10280	.00030	.00050	-.00050
13.049	13.000	.00000	.46170	-.01420	.45310	.09006	5.03130	-.12460	.00040	.00040	-.00080
13.035	15.140	.00000	.54960	-.01680	.53490	.12731	4.20160	-.14690	.00070	.00010	-.00110
13.042	17.310	.01000	.64010	-.01830	.61660	.17301	3.56380	-.17080	.00100	-.00100	-.00160
13.012	19.570	.01000	.75800	-.02380	.72220	.23137	3.12140	-.20400	.00210	-.00130	-.00440
12.993	21.790	.02000	.87790	-.03120	.82680	.29693	2.78440	-.23550	.00320	-.00180	-.00700
12.986	24.060	.03000	.99370	-.03730	.92260	.37111	2.48610	-.26470	.00450	-.00250	-.01070
12.993	26.230	.02000	1.10950	-.04250	1.01400	.45223	2.24220	-.29580	.00290	-.00160	-.00910
GRADIENT		.00000	.03177	-.00075	.03163	.00039	2.82685	-.00856	-.00002	.00009	-.00010

RUN NO. 84/ 0 RN/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.634	-2.160	.00000	-.07670	.00700	-.07640	.00998	-7.73200	.01760	-.00010	-.00050	.00060
19.597	-1.060	.00000	-.04260	.00790	-.04240	.00873	-4.85980	.00930	-.00020	-.00040	.00050
19.591	.050	.00000	-.00670	.00830	-.00670	.00832	-.80190	-.00170	-.00020	-.00040	.00040
19.574	1.160	.00000	.02590	.00800	.02680	.00854	3.13520	-.01040	-.00020	-.00020	.00030
19.594	2.250	.00000	.06300	.00690	.06270	.00940	6.56840	-.02040	-.00010	-.00030	.00010
19.574	3.350	.00000	.09760	.00490	.09710	.01058	9.18190	-.02340	-.00020	-.00020	.00000
19.555	4.470	.00000	.13430	.00230	.13370	.01272	10.51000	-.03890	-.00010	-.00030	-.00010
19.555	6.660	.00000	.20750	-.00400	.20650	.02008	10.22800	-.05810	-.00020	-.00030	.00040
19.548	8.940	.00000	.29540	-.01230	.29370	.03380	8.69940	-.08050	.00020	-.00060	.00050
19.561	11.180	.00000	.39700	-.02020	.39350	.05517	6.95190	-.10430	.00000	-.00080	.00080
19.512	13.560	.00000	.48310	-.01990	.47430	.09389	5.05210	-.12940	.00000	-.00030	.00050
19.522	15.740	.01000	.57040	-.02200	.55500	.13357	4.15480	-.15160	-.00020	-.00100	-.00060
19.460	17.980	.02000	.65820	-.02150	.63270	.18269	3.46340	-.17460	.00190	-.00040	-.00480
19.492	20.390	.03000	.79100	-.02770	.75110	.24961	3.00890	-.21230	.00200	-.00180	-.00740
19.502	22.760	.05000	.92020	-.03510	.86210	.32369	2.65340	-.24780	.00420	-.00260	-.01140
19.542	25.110	.06000	1.03780	-.04210	.95760	.40220	2.38090	-.27790	.00430	-.00280	-.01460
19.515	27.480	.07000	1.15170	-.04760	1.04390	.48913	2.13400	-.30710	.00330	-.00350	-.01680
GRADIENT		.00000	.03181	-.00070	.03166	.00043	2.92041	-.00353	.00000	.00004	-.00011

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AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING III 45-80-0008

AMES 12-086 (LA65)

(JNC019) (18 APR 77)

REFERENCE DATA

SREF = .0709 SQ. M. XMRP = .3166 M. XB
 LREF = .3235 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 45.000
 FILSWP = 80.000 TESWP = 15.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 83/ 0 RN/L = 7.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
26.228	-2.210	.00000	-.07790	.00680	-.07760	.00976	-7.95410	.0800	-.00010	-.00050	.00050
26.202	-1.070	.00000	-.04320	.00780	-.04310	.00864	-4.98130	.00830	-.00010	-.00040	.00040
26.176	.060	.00000	-.00820	.00850	-.00820	.00846	-.95760	-.00110	-.00010	-.00040	.00040
26.127	1.130	.00000	.02470	.00800	.02450	.00847	2.89770	-.00980	-.00020	-.00030	.00040
26.159	2.350	.00000	.06370	.00680	.06340	.00940	6.74450	-.02040	-.00020	-.00020	.00010
26.133	3.490	.00000	.10040	.00470	.10000	.01083	9.22820	-.03000	-.00010	-.00030	.00020
26.135	4.630	.00000	.13700	.00190	.13640	.01296	10.52600	-.03930	-.00020	-.00010	.00010
26.077	6.920	.00000	.21790	-.00520	.21690	.02107	10.29400	-.06060	-.00010	-.00010	.00010
26.163	9.270	.00000	.30490	-.01420	.30320	.03518	8.62010	-.08220	.00000	-.00030	.00010
26.186	11.550	.00000	.39350	-.02370	.39020	.05557	7.02240	-.10380	.00010	-.00080	.00060
26.135	14.000	.00000	.49600	-.02740	.48790	.09342	5.22300	-.13130	-.00010	.00050	-.00140
26.136	16.360	.01000	.58290	-.02520	.56640	.13598	4.04650	-.15300	.00180	.00070	-.00330
26.091	18.770	.03000	.68640	-.02600	.65830	.19630	3.35340	-.18110	.00210	-.00040	-.00570
26.087	21.230	.05000	.82640	-.03120	.78160	.27020	2.89260	-.22190	.00270	-.00190	-.00950
26.002	23.760	.08000	.96240	-.03920	.89660	.35193	2.54760	-.25920	.00440	-.00270	-.01320
26.022	26.230	.10000	1.08440	-.04590	.99310	.43809	2.26680	-.29050	.00560	-.00310	-.01770
26.173	28.700	.11000	1.17990	-.05120	1.05950	.52171	2.03090	-.30960	.00040	-.00500	-.01790
	GRADIENT	.00000	.03144	-.00071	.03132	.00047	2.86593	-.00939	-.00001	.00005	-.00006

WING III 45-75-0008

AMES 12-086 (LA65)

(JNC020) (18 APR 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = .0618 SQ. M. XMRP = .2337 M. XB
 LREF = .2554 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

T/C = .080 LESWP = 45.000
 FILSWP = 75.000 TESWP = 15.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 88/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
13.029	-2.000	.00000	-.08860	.00750	-.08830	.01062	-8.31630	.0190	.00000	.00000	-.00220
13.068	-1.010	.00000	-.05350	.00830	-.05330	.00922	-5.78260	.00550	.00000	.00010	-.00210
13.065	.030	.00000	-.01610	.00880	-.01610	.00876	-1.83190	-.00100	.00000	.00020	-.00250
13.085	1.090	.00000	.02170	.00820	.02150	.00854	2.48900	-.00790	-.00010	.00020	-.00220
13.081	2.130	.00000	.06150	.00720	.06120	.00950	6.44030	-.01480	-.00010	.00020	-.00260
13.065	3.180	.00000	.09830	.00550	.09790	.01092	8.96470	-.02100	-.00010	.00030	-.00260
13.052	4.290	.00000	.14340	.00300	.14280	.01372	10.40700	-.02930	-.00020	.00020	-.00150
13.065	6.390	.00000	.21900	-.00430	.21810	.02008	10.86400	-.04280	-.00020	.00020	-.00190
13.052	8.450	.00000	.31020	-.01180	.30850	.03391	9.10040	-.06070	-.00030	-.00020	-.00040
13.075	10.560	.00000	.40290	-.01450	.39980	.05958	6.69370	-.07830	-.00080	.00000	-.00040
13.055	12.640	.00000	.49540	-.01780	.48730	.09102	5.35360	-.09540	-.00060	.00010	-.00080
13.058	14.770	.00000	.58900	-.02170	.57510	.12914	4.45330	-.11260	-.00060	.00000	-.00020
13.065	16.880	.00000	.68660	-.02380	.66400	.17653	3.76120	-.13260	.00040	.00010	-.00060
13.045	19.040	.00000	.81860	-.03240	.78440	.23639	3.31840	-.15930	.00060	.00070	-.00090
13.062	21.180	.00000	.95600	-.04130	.90630	.30696	2.95250	-.18530	-.00040	.00110	-.00140
13.052	23.280	.00000	1.00180	-.04480	.93790	.35486	2.64310	-.18130	.00230	.00130	-.00170
13.032	25.280	-.01000	1.02640	-.04560	.94750	.39707	2.38630	-.17220	.00070	.00110	.00100
GRADIENT		.00000	.03671	-.00071	.03657	.00047	3.19715	-.00649	-.00003	.00003	.00004

RUN NO. 87/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.686	-2.090	.00000	-.08910	.00700	-.08870	.01028	-8.63240	.01360	-.00010	.00000	-.00010
19.650	-1.030	.00000	-.05130	.00810	-.05110	.00906	-5.64060	.00670	-.00010	.00000	-.00030
19.686	.040	.00000	-.01260	.00850	-.01260	.00849	-1.47840	-.00580	-.00010	.00010	-.00030
19.663	1.130	.00000	.02710	.00820	.02690	.00877	3.07200	-.00770	-.00020	.00020	-.00040
19.696	2.230	.00000	.06760	.00700	.06730	.00962	6.99520	-.01490	-.00020	.00020	-.00070
19.650	3.310	.00000	.10660	.00490	.10620	.01100	9.65420	-.02190	-.00030	.00020	-.00080
19.634	4.320	.00000	.14160	.00260	.14100	.01327	10.62400	-.02640	-.00020	.00030	-.00090
19.656	6.490	.00000	.22730	-.00530	.22650	.02042	11.09100	-.04390	-.00020	.00020	-.00120
19.630	8.610	.00000	.31850	-.01340	.31690	.03439	9.21480	-.06190	-.00030	-.00020	-.00070
19.650	10.790	.00000	.41330	-.01750	.40920	.06019	6.79930	-.07980	-.00130	-.00070	-.00030
19.643	12.940	.00000	.50470	-.02090	.49660	.09265	5.35930	-.09590	-.00120	-.00030	.00010
19.627	15.110	.00000	.60300	-.02600	.58900	.13204	4.46050	-.11570	-.00010	.00020	-.00030
19.578	17.290	.00000	.69570	-.02740	.67240	.18068	3.72150	-.13460	-.00060	.00010	-.00070
19.598	19.510	.00000	.82870	-.03510	.79280	.24368	3.25350	-.16300	.00330	.00010	-.00090
19.571	21.730	.00000	.96380	-.04560	.91220	.31443	2.90110	-.18580	.00230	.00030	-.00260
19.574	23.920	.00000	1.04790	-.05320	.97940	.37625	2.60310	-.19740	-.00470	.00010	.00040
19.574	26.000	.00000	1.05960	-.05460	.97630	.41547	2.34980	-.18240	-.00470	.00070	-.00030
GRADIENT		.00000	.03615	-.00070	.03500	.00046	3.22067	-.00655	-.00003	.00005	-.00013

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

PAGE 39

WING III 45-75-0008

AMES 12-086 (LA65)

(JNC020) (18 APR 77)

REFERENCE DATA

SREF = .0618 SQ. M. XMRP = .2337 M. XB
 LREF = .2554 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 45.000
 FILSWP = 75.000 TESWP = 15.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 86/ 0 RN/L = 7.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
26.130	-2.150	.00000	-.08950	.00680	-.08920	.01013	-8.80510	.0.450	.00000	.00000	.00020
26.159	-1.050	.00000	-.05020	.00810	-.05010	.00897	-5.58230	.00670	.00000	.00010	.00000
26.123	.040	.00000	-.01180	.00850	-.01180	.00846	-1.39740	-.00030	-.00010	.00020	-.00020
26.179	1.150	.00000	.02880	.00830	.02860	.00886	3.23430	-.00760	-.00010	.00020	-.00040
26.140	2.270	.00000	.06750	.00700	.06720	.00967	6.94870	-.01430	-.00010	.00030	-.00040
26.143	3.350	.00000	.10820	.00490	.10780	.01123	9.59690	-.02170	-.00020	.00030	-.00010
26.143	4.410	.00000	.14840	.00210	.14780	.01353	10.91700	-.02890	-.00010	.00030	-.00030
26.136	6.600	.00000	.23210	-.00590	.23120	.02080	11.11300	-.04430	-.00020	.00030	-.00070
26.110	8.790	.00000	.32610	-.01520	.32460	.03484	9.31790	-.06250	-.00020	-.00040	-.00010
26.110	11.010	.00000	.42100	-.02070	.41720	.06014	6.93760	-.08020	-.00110	-.00110	.00140
26.097	13.280	.00000	.52220	-.02710	.51450	.09359	5.49740	-.09940	-.00180	-.00150	.00170
26.087	15.470	.00000	.61620	-.02980	.60190	.13569	4.43560	-.11740	-.00110	-.00040	.00050
26.028	17.700	.00000	.72160	-.03130	.69690	.18964	3.67500	-.13900	.00200	.00020	-.00110
25.976	19.940	.00000	.84500	-.03760	.80720	.25281	3.19290	-.16530	.00320	-.00020	-.00100
26.094	22.350	.00000	.98650	-.04940	.93120	.32938	2.82710	-.19200	.00310	-.00030	-.00030
25.995	24.520	.00000	1.06310	-.05600	.99040	.39023	2.53810	-.19760	-.00770	-.00120	.00460
26.091	26.630	-.01000	1.08440	-.05950	.99600	.43296	2.30040	-.18710	-.01080	-.00070	.00620
GRADIENT		.00000	.03614	-.00071	.03600	.00052	3.18959	-.00654	-.00002	.00005	-.00006

WING III 45-70-0008

AMES 12-086 (LA65)

(JNC021) (18 APR 77)

REFERENCE DATA

SREF = .0572 SQ. M. XMRP = .1896 M. XB
 LREF = .2233 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 45.000
 FILSWP = 70.000 TESWP = 15.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 90/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
19.679	-2.140	.00000	-.09510	.00710	-.09470	.01064	-8.90490	.0830	.00010	.00030	-.00100
19.670	-1.060	.00000	-.05370	.00800	-.05350	.00904	-5.91860	.00170	.00020	.00040	-.00090
19.630	.070	.00000	-.00920	.00840	-.00920	.00842	-1.09230	-.00440	.00010	.00040	-.00110
19.604	1.130	.00000	.03260	.00820	.03240	.00889	3.64670	-.01070	.00010	.00040	-.00120
19.538	2.240	.00000	.07550	.00690	.07520	.00981	7.65730	-.01630	.00020	.00050	-.00140
19.571	3.390	.00000	.12060	.00450	.12010	.01166	10.30400	-.02190	.00010	.00050	-.00150
19.565	4.480	.00000	.16370	.00130	.16310	.01411	11.56200	-.02730	.00020	.00060	-.00180
19.551	6.680	.00000	.25230	-.00810	.25150	.02132	11.79600	-.03810	.00020	.00060	-.00210
19.561	8.880	.00000	.35430	-.01970	.35310	.03525	10.01900	-.05290	.00020	.00200	-.00470
19.571	11.110	.00000	.45160	-.03030	.44900	.05733	7.83150	-.06770	.00150	.00280	-.00550
19.535	13.300	.00000	.54590	-.03030	.53820	.09609	5.60100	-.08510	.00020	.00080	-.00320
19.584	15.560	.00000	.64860	-.03400	.63400	.14131	4.48620	-.09950	.00010	.00050	-.00360
19.581	17.790	.00000	.75330	-.03860	.72910	.19339	3.77000	-.11310	.00210	.00090	-.00370
19.617	20.110	.00000	.87010	-.04970	.83410	.25249	3.30370	-.12510	.00140	.00100	-.00410
19.578	22.260	.01000	.92950	-.05490	.88110	.30127	2.92450	-.12150	.00270	.00120	-.00570
19.558	24.410	.01000	.97200	-.05720	.90880	.34950	2.60020	-.11850	.00200	.00140	-.00730
19.588	26.340	.01000	.95730	-.04700	.87870	.38272	2.29590	-.12560	.00040	.00110	-.00660
GRADIENT	.00000	.00000	.03911	-.00084	.03896	.00055	3.31484	-.00536	.00001	.00004	-.00013

RUN NO. 89/ 0 RN/L = 7.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
26.150	-2.210	.00000	-.09640	.00570	-.09600	.01038	-9.24790	.00780	.00020	.00030	-.00110
26.127	-1.110	.00000	-.05480	.00820	-.05460	.00923	-5.91910	.00180	.00010	.00040	-.00120
26.182	.020	.00000	-.01150	.00870	-.01150	.00869	-1.32720	-.00410	.00030	.00030	-.00120
26.133	1.150	.00000	.03290	.00820	.03270	.00886	3.68950	-.01050	.00010	.00040	-.00140
26.176	2.330	.00000	.07770	.00670	.07740	.00990	7.81700	-.01610	.00010	.00050	-.00150
26.107	3.450	.00000	.12110	.00440	.12060	.01166	10.34300	-.02180	.00030	.00050	-.00150
26.136	4.590	.00000	.16750	.00080	.16690	.01420	11.75400	-.02750	.00010	.00050	-.00180
26.153	6.900	.00000	.26280	-.00970	.26210	.02196	11.93600	-.03950	.00020	.00050	-.00210
26.209	9.170	.00000	.35860	-.02280	.35760	.03460	10.33700	-.05290	.00030	.00140	-.00400
26.163	11.460	.00000	.45890	-.03610	.45690	.05590	8.18840	-.06600	.00160	.00150	-.00460
26.133	13.760	.00000	.56290	-.03960	.55620	.09549	5.82460	-.08420	.00220	.00330	-.00830
26.173	16.130	.01000	.67200	-.04000	.65670	.14821	4.43080	-.09910	.00190	.00150	-.00520
26.156	18.490	.01000	.78370	-.04670	.75810	.20421	3.71220	-.11410	.00160	.00150	-.00640
26.077	20.750	.01000	.89420	-.05480	.84620	.26199	3.23000	-.12370	.00220	.00150	-.00700
26.192	22.960	.01000	.92470	-.05910	.87410	.30727	2.84470	-.11740	.00510	.00180	-.00810
26.113	25.060	.01000	.94920	-.05730	.88410	.35018	2.52470	-.11640	.00630	.00130	-.00840
26.071	27.050	.01000	.96100	-.05170	.87940	.39099	2.24920	-.12640	.00290	.00090	-.00680
GRADIENT	.00000	.00000	.03873	-.00086	.03858	.00055	3.28804	-.00520	-.00000	.00003	-.00009

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING III 45-65-0008

AMES 12-086 (LA65)

(JNC022) (18 APR 77)

REFERENCE DATA

SREF = .0544 SQ. M. XMRP = .1617 M. XB
 LREF = .2047 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 45.000
 FILSWP = 65.000 TESWP = 15.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 92/ 0 RN/L = 5.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.545	-2.190	.00000	-.09660	.00710	-.09630	.01079	-8.92440	.00040	-.00020	-.00090	.00370
19.509	-1.050	-.01000	-.04990	.00840	-.04970	.00927	-5.36360	-.00470	-.00020	-.00090	.00380
19.529	.070	.00000	-.00480	.00890	-.00490	.00893	-5.3610	-.00900	-.00030	-.00080	.00370
19.496	1.190	-.01000	.04000	.00830	.03990	.00909	4.38220	-.01400	-.00030	-.00070	.00390
19.502	2.290	.00000	.08640	.00670	.08610	.01012	8.50390	-.01880	-.00030	-.00080	.00350
19.460	3.460	.00000	.13400	.00410	.13350	.01220	10.94300	-.02250	-.00030	-.00070	.00320
19.456	4.540	.00000	.17990	.00060	.17930	.01462	12.09500	-.02630	-.00030	-.00070	.00310
19.456	6.600	.00000	.27500	-.00970	.27420	.02293	11.95400	-.03470	-.00020	-.00070	.00310
19.443	9.060	.00000	.37660	-.02390	.37570	.03564	10.54000	-.04370	-.00010	-.00130	.00420
19.450	11.320	.00000	.48200	-.03660	.48020	.05569	8.47010	-.05490	-.00050	-.00140	.00400
19.456	13.610	.00000	.58400	-.04660	.57650	.09214	6.27350	-.06240	-.00160	-.00230	.00640
19.466	15.840	-.01000	.67450	-.04890	.65220	.13710	4.83030	-.08100	-.00400	-.00370	.01010
19.460	18.110	-.01000	.77020	-.04970	.74750	.19213	3.89070	-.08490	.00060	-.00190	.00820
19.486	20.340	-.01000	.84500	-.05320	.81100	.24329	3.33350	-.08650	.00390	-.00150	.00590
19.460	22.450	-.01000	.88470	-.05330	.83800	.28858	2.90390	-.08760	-.00120	-.00200	.00780
19.443	24.500	-.01000	.91610	-.04970	.85430	.33462	2.55300	-.09350	-.00250	-.00130	.00610
19.512	26.680	-.01000	.95800	-.04880	.86680	.39107	2.26770	-.11440	-.00080	-.00100	.00510
GRADIENT		.00053	.04099	-.00056	.04085	.00061	3.33212	-.00393	-.00002	.00003	-.00010

RUN NO. 91/ 0 RN/L = 7.93 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
26.104	-2.280	.00000	-.09770	.00670	-.09730	.01057	-9.20480	.00020	-.00010	-.00060	.00260
26.028	-1.120	.00000	-.05280	.00820	-.05260	.00921	-5.71320	-.00460	-.00010	-.00060	.00250
26.045	.030	.00000	-.00680	.00880	-.00680	.00982	-.77320	-.00930	-.00020	-.00060	.00250
26.058	1.200	.00000	.04020	.00830	.04000	.00910	4.39250	-.01430	-.00030	-.00060	.00250
26.041	2.360	.00000	.08660	.00540	.08620	.01008	8.75240	-.01890	-.00020	-.00060	.00230
26.015	3.580	.00000	.13790	.00370	.13730	.01228	11.18600	-.02290	-.00020	-.00050	.00220
25.995	4.690	.00000	.18520	-.00030	.18460	.01487	12.41100	-.02730	-.00020	-.00050	.00210
26.018	7.010	.00000	.28300	-.01110	.28220	.02350	12.01100	-.03560	-.00020	-.00060	.00190
26.074	9.390	.00000	.39770	-.02730	.38690	.03630	10.55800	-.04450	.00000	-.00090	.00180
26.008	11.760	.00000	.49450	-.04530	.49340	.05638	8.75090	-.05440	-.00040	-.00070	.00200
26.018	14.110	.00000	.59290	-.05310	.59770	.09549	6.25930	-.07020	-.00020	-.00080	.00180
25.979	16.410	.00000	.69950	-.05270	.67730	.14452	4.69520	-.08380	-.00200	-.00170	.00380
25.963	18.790	-.01000	.77340	-.05280	.74920	.19912	3.76240	-.09370	-.00400	-.00140	.00450
25.963	21.030	.00000	.85830	-.05910	.82210	.25381	3.23920	-.09070	.00090	-.00090	.00180
25.933	23.290	.00000	.92610	-.06320	.87550	.30819	2.84120	-.09240	.00580	-.00090	.00170
26.048	25.360	.00000	.94160	-.05590	.87490	.35278	2.47990	-.10180	.00320	-.00170	.00460
25.933	27.510	.00000	.98840	-.05490	.90210	.40778	2.21210	-.11410	.00140	-.00110	.00280
GRADIENT		.00000	.04060	-.00099	.04046	.00062	3.31399	-.00393	-.00002	.00001	-.00007

WING III 45-60-0008

AMES 12-086 (LA65)

(JNC023) (18 APR 77)

REFERENCE DATA

SREF = .0524 SQ. M. XMRP = .1421 M. XB
 LREF = .1926 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 45.000
 FILSWP = 60.000 TESWP = 15.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 94/ 0 RN/L = 5.90 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.384	-2.150	.00000	-.09670	.00730	-.09640	.01094	-8.80430	.0320	.00000	.00020	.00240
19.378	-.990	-.01000	-.05040	.00880	-.05020	.00969	-5.17810	-.00150	.00000	.00030	.00280
19.397	.040	.00000	-.00620	.00910	-.00620	.00907	-.68430	-.00500	.00000	.00030	.00260
19.358	1.170	-.01000	.04250	.00870	.04230	.00960	4.40790	-.00900	-.00010	.00040	.00260
19.394	2.270	-.01000	.08910	.00710	.08870	.01064	8.33770	-.01170	-.00020	.00040	.00260
19.384	3.350	-.01000	.13450	.00470	.13400	.01254	10.68800	-.01440	-.00030	.00040	.00340
19.384	4.440	-.01000	.18260	.00120	.18200	.01535	11.85000	-.01790	-.00020	.00040	.00320
19.358	6.600	-.01000	.27590	-.00860	.27510	.02318	11.86600	-.02370	-.00020	.00040	.00290
19.401	8.780	.00000	.38570	-.02080	.38430	.03835	10.02200	-.03280	-.00020	-.00020	.00360
19.358	10.970	.00000	.49000	-.02980	.48670	.06403	7.60180	-.04310	-.00090	-.00040	.00430
19.319	13.140	-.01000	.59690	-.03560	.57970	.09874	5.87060	-.05480	-.00110	-.00020	.00410
19.302	15.290	-.01000	.66830	-.03580	.65410	.14167	4.61720	-.06680	-.00020	.00030	.00370
19.292	17.410	-.01000	.73810	-.03310	.71420	.18919	3.77490	-.07880	-.00120	.00020	.00440
19.289	19.500	-.01000	.78420	-.03150	.74970	.23206	3.23060	-.08620	-.00640	.00060	.00770
19.305	21.550	-.01000	.82620	-.02740	.77850	.27820	2.79820	-.09900	-.00160	.00050	.00520
19.368	23.660	-.01000	.86890	-.02600	.80630	.32491	2.48150	-.10750	.00110	.00170	.00190
19.315	25.680	-.01000	.89280	-.02460	.81530	.36476	2.23520	-.11440	-.00110	.00280	.00270
GRADIENT		-.00132	.04247	-.00093	.04232	.00067	3.34978	-.00312	-.00005	.00003	.00012

RUN NO. 93/ 0 RN/L = 7.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
26.261	-2.170	.00000	-.09980	.00700	-.09950	.01082	-9.19490	.00340	.00020	.00030	-.00060
26.212	-1.080	.00000	-.05550	.00620	-.05530	.00924	-5.99380	-.00080	.00020	.00030	-.00020
26.173	.030	.00000	-.00720	.00870	-.00720	.00869	-.83010	-.00480	.00010	.00040	.00050
26.117	1.230	.00000	.04200	.00820	.04180	.00913	4.57650	-.00840	.00010	.00040	.00010
26.136	2.320	.00000	.08760	.00660	.08730	.01011	8.63310	-.01160	.00000	.00040	.00040
26.104	3.440	.00000	.13500	.00390	.13460	.01203	11.18700	-.01480	.00000	.00040	.00040
26.140	4.520	.00000	.18360	.00040	.18300	.01488	12.30000	-.01810	.00010	.00040	.00030
26.225	6.790	.00000	.28530	-.01030	.28450	.02347	12.12300	-.02480	-.00010	.00040	.00050
26.218	9.010	.00000	.39200	-.02350	.39080	.03922	10.22500	-.03300	-.00010	-.00040	.00200
26.212	11.270	-.01000	.49720	-.03910	.49500	.05980	8.27800	-.04120	-.00010	.00110	-.00010
26.205	13.530	.00000	.60020	-.04180	.59330	.09981	5.94440	-.05520	-.00030	.00020	.00120
26.166	15.700	.00000	.68410	-.04330	.67030	.14347	4.67220	-.06600	-.00240	-.00040	.00320
26.130	17.870	-.01000	.75550	-.03850	.73090	.19527	3.74310	-.08240	-.00340	-.00010	.00390
26.104	20.000	-.01000	.81290	-.03530	.77590	.24489	3.16850	-.09820	-.00440	.00120	.00270
26.146	22.010	-.01000	.82940	-.03180	.78080	.28143	2.77450	-.10500	-.00400	.00110	.00400
26.196	24.090	.00000	.84590	-.02920	.78410	.31860	2.46120	-.10810	.00160	.00050	.00080
26.156	26.130	-.01000	.87590	-.02490	.79730	.36343	2.19390	-.11930	.00180	.00160	-.00160
GRADIENT		.00000	.04223	-.00097	.04209	.00061	3.45358	-.00316	-.00003	.00002	.00012

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING III 45-55-0008

AMES 12-086 (LA65)

(JNC024) (18 APR 77)

REFERENCE DATA

SREF = .0510 SQ. M. XMRP = .1275 M. XB
 LREF = .1839 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 45.000
 FILSWP = 55.000 TESWP = 15.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 96/ 0 RN/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.515	-2.150	.01000	.10730	.00750	-.10690	.01154	-9.26130	.0170	.00010	.00000	.00340
19.519	-1.060	.00000	-.05960	.00910	-.05940	.01023	-5.80640	-.00230	.00020	.00000	.00320
19.538	.020	.00000	-.01460	.00950	-.01460	.00950	-1.53810	-.00480	.00000	.00010	.00310
19.542	1.200	.00000	.03740	.00590	.03720	.00972	3.82850	-.00890	.00010	.00000	.00310
19.492	2.250	.00000	.08110	.00730	.08070	.01046	7.72210	-.01110	.00010	.00010	.00250
19.519	3.340	.00000	.13100	.00450	.13050	.01208	10.80600	-.01390	.00000	.00010	.00250
19.515	4.420	.00000	.17710	.00120	.17650	.01488	11.86300	-.01570	.00010	.00020	.00160
19.506	6.670	.00000	.27730	-.00920	.27650	.02310	11.96900	-.02050	.00020	.00010	.00130
19.466	8.860	.00000	.38550	-.02420	.38460	.03553	10.82600	-.02640	.00050	.00020	.00100
19.512	11.070	.00000	.49620	-.04070	.49480	.05529	8.94650	-.03320	.00070	.00030	.00020
19.519	13.290	.00000	.59200	-.04480	.59230	.09390	6.31420	-.04470	-.00090	-.00030	-.00060
19.568	15.420	.00000	.67680	-.03910	.66280	.14226	4.65930	-.05830	-.00030	.00010	-.00060
19.496	17.570	.00000	.74890	-.03590	.72480	.19179	3.77930	-.07170	-.00010	.00030	-.00100
19.512	19.730	.00000	.81320	-.03730	.77800	.23948	3.24390	-.08350	-.00100	.00030	-.00100
19.515	21.760	-.01000	.86380	-.03610	.81560	.28668	2.84490	-.09670	-.00560	.00150	.00160
19.492	23.810	.00000	.87930	-.03650	.82000	.31975	2.56440	-.09960	-.00140	.00010	.00030
19.509	25.820	.00000	.85440	-.03420	.79300	.34576	2.29340	-.09970	.00390	.00070	-.00480
GRADIENT		.00098	.04327	-.00098	.04311	.00047	3.44719	-.00266	-.00001	.00003	-.00024

RUN NO. 95/ 0 RN/L = 7.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
26.271	-2.220	.00000	-.10820	.00680	-.10790	.01102	-9.79150	.00130	.00010	.00010	.00170
26.245	-1.110	.00000	-.06400	.00850	-.06380	.00979	-6.51830	-.00230	.00000	.00020	.00140
26.268	.000	.00000	-.01400	.00900	-.01400	.00903	-1.55200	-.00570	.00020	.00020	.00110
26.209	1.230	.00000	.03710	.00850	.03690	.00932	3.95270	-.00910	.00020	.00030	.00090
26.232	2.330	.00000	.09720	.00690	.08680	.01039	8.35520	-.01190	.00010	.00020	.00070
26.196	3.450	.00000	.13470	.00410	.13420	.01217	11.02500	-.01400	.00020	.00020	.00060
26.189	4.550	.00000	.19350	.00050	.18290	.01502	12.17400	-.01610	.00020	.00020	.00040
26.182	6.840	.00000	.28350	-.01120	.28680	.02335	12.37000	-.02150	.00020	.00040	-.00130
26.041	9.090	.00000	.39420	-.02670	.39350	.03585	10.97600	-.02570	.00070	.00040	-.00170
26.153	11.420	.00000	.51050	-.04430	.50910	.05769	9.82470	-.03360	.00090	.00050	-.00210
26.104	13.700	.00000	.61940	-.04910	.61340	.09294	6.19950	-.04660	-.00130	-.00060	-.00080
26.097	15.900	.00000	.70160	-.04610	.69740	.14783	4.64970	-.05960	-.00200	-.00050	.00040
26.123	18.070	.00000	.77080	-.04310	.74610	.19810	3.76620	-.07220	.00010	.00050	-.00330
26.025	20.260	.00000	.84760	-.04810	.81190	.24831	3.26950	-.08190	-.00090	.00060	-.00350
26.205	22.380	.01000	.89400	-.04590	.84410	.29801	2.83250	-.09550	.00180	-.00010	-.00350
26.084	24.370	.01000	.90240	-.04330	.83990	.33294	2.52250	-.10360	.00420	-.00110	-.00350
26.087	26.330	.01000	.87860	-.04130	.80580	.35261	2.28510	-.09870	.00370	-.00080	-.00450
GRADIENT		.00000	.04325	-.00094	.04311	.00057	3.49655	-.00258	.00002	.00001	-.00019

WING IV 53-53-0008

AMES 12-086 (LA65)

(JNC025) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .1253 M. XB
 LREF = .1801 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 53.000
 FILSWP = 53.000 TESWP = 7.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 33/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
6.319	-1.950	.00000	-.04560	.01140	-.04520	.01292	-3.49440	-.0.030	.00080	.00060	-.00380
6.296	-.980	.00000	-.00030	.01330	.00000	.01328	-.00270	-.01690	.00060	.00050	-.00340
6.293	.110	.00000	.04520	.01400	.04520	.01409	3.20870	-.02130	.00070	.00070	-.00420
6.293	1.120	.00000	.09290	.01380	.09260	.01558	5.94260	-.02780	.00070	.00060	-.00370
6.293	2.130	.00000	.13940	.01220	.13880	.01738	7.98680	-.03050	.00070	.00050	-.00250
6.277	3.190	.00000	.18550	.01020	.18470	.02051	9.00400	-.03470	.00050	.00030	-.00070
6.277	4.220	.00000	.23690	.00730	.23570	.02471	9.53810	-.03870	.00040	.00020	-.00020
6.273	6.300	.00000	.32860	-.00180	.32680	.03432	9.52200	-.04580	.00050	.00030	-.00050
6.263	8.330	.00000	.42630	-.01100	.42340	.05087	8.32360	-.05450	.00050	.00020	-.00090
6.260	10.410	.00000	.52390	-.01910	.51870	.07584	6.83950	-.06200	.00050	.00080	-.00120
6.263	12.470	.00000	.61090	-.02430	.60180	.10818	5.56260	-.06720	.00060	.00110	-.00210
6.260	14.530	.00000	.69670	-.03010	.68200	.14569	4.68090	-.07490	.00060	.00100	-.00180
6.250	16.590	.00000	.78100	-.03200	.75760	.19244	3.93690	-.08400	.00100	.00070	-.00270
6.277	18.640	.00000	.84900	-.03210	.81480	.24094	3.38150	-.09200	-.00020	.00100	-.00250
6.267	20.660	.00000	.92970	-.03100	.88090	.29896	2.94640	-.10860	-.00030	.00130	-.00350
6.267	22.680	.00000	.94500	-.02080	.87990	.34523	2.54880	-.12680	.00170	.00080	-.00280
6.257	24.700	.00000	.94680	-.01640	.86710	.38062	2.27800	-.13440	-.00020	.00100	-.00310
GRADIENT		.00000	.04549	-.00071	.04522	.00184	2.14195	-.00450	-.00005	-.00006	.00032

RUN NO. 32/ 0 RN/L = 3.87 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
12.773	-2.050	.00000	-.08010	.00910	-.07970	.01196	-6.66630	-.00440	.00040	.00030	.00030
12.727	-1.000	.00000	-.03540	.01060	-.03520	.01117	-3.14870	-.00840	.00020	.00020	.00040
12.717	.070	.00000	.01330	.01100	.01330	.01105	1.19930	-.01380	.00020	.00030	.00020
12.737	1.130	.00000	.06000	.01060	.05970	.01174	5.08760	-.01710	.00030	.00030	.00010
12.730	2.200	.00000	.10900	.00920	.10750	.01338	8.03370	-.02230	.00030	.00040	-.00010
12.704	3.230	.00000	.15520	-.00680	.15460	.01554	9.94940	-.02600	.00030	.00040	-.00030
12.734	4.310	.00000	.20180	.00320	.20100	.01836	10.94800	-.02960	.00020	.00030	.00050
12.707	6.430	.00000	.29620	-.00660	.29500	.02657	11.10500	-.03540	.00030	.00020	.00120
12.727	8.590	.00000	.39730	-.02050	.39590	.03914	10.11600	-.04140	.00070	-.00040	.00290
12.701	10.700	.00000	.49830	-.03240	.49560	.06066	8.17110	-.04950	-.00050	-.00260	.00610
12.704	12.820	.00000	.59690	-.03650	.59020	.09570	6.10280	-.05810	.00200	.00180	-.00170
12.720	14.930	.00000	.69700	-.04590	.67550	.13258	5.09570	-.06550	-.00080	-.00060	.00330
12.697	17.030	.00000	.76930	-.04560	.74900	.18166	4.12290	-.07620	-.00050	.00010	.00240
12.704	19.140	.00000	.83990	-.04420	.80790	.23363	3.45820	-.08490	.00070	.00060	.00040
12.688	21.210	.00000	.90630	-.03710	.85830	.29330	2.92640	-.10400	.00030	.00050	-.00130
12.694	23.240	.00000	.93510	-.02700	.86990	.34414	2.52780	-.11980	.00490	-.00060	.00270
12.681	25.230	.00000	.92740	-.02170	.84820	.37559	2.25830	-.12730	.00230	.00030	-.00260
GRADIENT		.00000	.04454	-.00091	.04435	.00102	2.89475	-.00402	-.00001	.00002	-.00004

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING IV 53-53-0008

AMES 12-086 (LA65)

(JNC025) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .1253 M. XB
 LREF = .1801 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 53.000
 FILSWP = 53.000 TESWP = 7.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 31/ 0 RN/L = 5.84 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
19.227	-2.100	.00000	-.09690	.00740	-.09660	.01095	-8.81940	.00070	.00030	.00020	.00030
19.210	-1.060	.00000	-.05310	.00880	-.05300	.00977	-5.41900	-.00440	.00020	.00020	.00020
19.187	.040	.00000	-.00350	.00930	-.00350	.00930	-.37780	-.00900	.00020	.00020	.00020
19.200	1.170	.00000	.04610	.00910	.04590	.01006	4.56150	-.01340	.00020	.00020	.00000
19.177	2.230	.00000	.09350	.00750	.09310	.01113	8.36830	-.01750	.00020	.00020	.00010
19.184	3.310	.00000	.14160	.00490	.14110	.01303	10.82800	-.02130	.00020	.00030	-.00010
19.158	4.460	.00000	.19080	.00090	.19020	.01577	12.05900	-.02360	.00020	.00020	.00040
19.171	6.580	.00000	.28680	-.00950	.28600	.02338	12.23500	-.03030	.00040	.00020	.00050
19.161	8.830	.00000	.39620	-.02560	.39540	.03555	11.12300	-.03770	.00080	-.00030	.00240
19.158	11.000	.00000	.50300	-.04260	.50190	.05412	9.27520	-.04660	-.00010	-.00110	.00310
19.158	13.200	.00000	.59740	-.05160	.59340	.08611	6.89060	-.05400	-.00120	-.00170	.00550
19.135	15.360	.00000	.68940	-.05290	.67870	.13163	5.15650	-.06450	-.00120	-.00070	.00390
19.161	17.520	.00000	.77850	-.05450	.75880	.18241	4.15960	-.07680	-.00130	-.00050	.00360
19.105	19.670	.00000	.85420	-.05450	.82270	.23616	3.48350	-.08800	-.00020	.00000	.00240
19.099	21.750	.00000	.91960	-.05200	.87340	.29256	2.98530	-.10080	-.00030	.00030	.00150
19.089	23.850	.00000	.96520	-.05010	.90300	.34446	2.62160	-.11370	-.00080	.00080	.00120
19.112	25.860	.00000	.96150	-.04120	.88320	.38236	2.30990	-.12480	-.00110	.00130	-.00010
GRADIENT		.00000	.04409	-.00096	.04395	.00075	3.39112	-.00378	-.00001	.00001	-.00001

RUN NO. 30/ 0 RN/L = 7.90 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
26.015	-2.180	.00000	-.10410	.00680	-.10370	.01080	-9.60710	.00130	.00030	.00010	.00040
26.048	-1.100	.00000	-.05750	.00840	-.05740	.00945	-6.07010	-.00360	.00020	.00010	.00030
26.048	.020	.00000	-.00920	.00930	-.00920	.00929	-.99230	-.00810	.00020	.00010	.00010
26.012	1.180	.00000	.04280	.00870	.04260	.00955	4.45690	-.01280	.00010	.00010	.00040
25.936	2.290	.00000	.09140	.00690	.09110	.01056	8.62970	-.01670	.00010	.00010	.00080
25.940	3.410	.00000	.14090	.00390	.14040	.01226	11.45000	-.01980	.00010	.00010	.00040
25.894	4.510	.00000	.18910	.00020	.18750	.01502	12.48100	-.02260	.00010	.00010	.00040
25.897	6.770	.00000	.29240	-.01170	.29170	.02289	12.74700	-.02960	.00010	-.00010	.00240
25.955	9.040	.00000	.39890	-.02790	.39820	.03510	11.34300	-.03640	.00070	-.00040	.00250
25.930	11.320	.00000	.50560	-.04500	.50850	.05588	9.10070	-.04610	-.00030	-.00070	.00320
25.913	13.550	-.01000	.61100	-.05480	.60680	.09006	6.73840	-.05510	.00060	.00100	.00080
25.844	15.820	.00000	.70580	-.05980	.69530	.13489	5.15480	-.06530	-.00020	.00010	.00220
25.871	18.020	-.01000	.79110	-.06320	.77180	.18465	4.17980	-.07640	-.00110	-.00030	.00350
25.821	20.230	.00000	.86730	-.06370	.83580	.24012	3.48100	-.08860	.00000	.00000	.00240
25.854	22.360	-.01000	.93070	-.05990	.83350	.29870	2.95800	-.10270	-.00080	.00040	.00190
25.792	24.430	-.01000	.97130	-.05360	.90660	.35288	2.56910	-.11700	-.00130	.00120	.00180
25.828	26.330	.00000	.94100	-.04200	.86200	.37976	2.27000	-.12640	-.00050	.00130	-.00060
GRADIENT		.00000	.04382	-.00093	.04367	.00062	3.53943	-.00359	-.00003	.00000	.00002

WING IV 53-80-0008

AMES 12-086 (LA65)

(JNC026) (18 APR 77)

REFERENCE DATA

SREF = .0694 SQ. M. XMRP = .3168 M. XB
 LREF = .3236 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 53.000
 FILSWP = 80.000 TESWP = 7.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 99/ 0 RN/L = 3.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
12.934	-2.080	.00000	-.07140	.00680	-.07110	.00941	-7.55410	.0.790	-.00050	-.00070	.00190
12.934	-1.010	.00000	-.03860	.00770	-.03850	.00837	-4.59960	.00780	-.00050	-.00070	.00180
12.930	.040	.00000	-.00550	.00810	-.00550	.00807	-.68010	-.00200	-.00060	-.00080	.00190
12.927	1.090	.00000	.02680	.00790	.02670	.00842	3.16920	-.01100	-.00060	-.00080	.00200
12.914	2.160	.00000	.06230	.00700	.06200	.00938	6.61130	-.02180	-.00050	-.00050	.00170
12.911	3.220	.00000	.09490	.00540	.09450	.01076	8.77830	-.03150	-.00060	-.00050	.00160
12.914	4.310	.00000	.13340	.00300	.13280	.01298	10.23300	-.04250	-.00070	-.00040	.00140
12.930	6.450	.00000	.20210	-.00330	.20120	.01944	10.35100	-.06200	-.00050	-.00050	.00120
12.930	8.560	.00000	.28150	-.00860	.27950	.03337	8.37950	-.08180	-.00050	-.00080	.00090
12.914	10.730	.00000	.36640	-.01350	.36250	.05495	6.59530	-.10800	-.00070	-.00130	.00030
12.911	12.920	.00000	.45100	-.01740	.44340	.08385	5.28840	-.12860	-.00040	-.00070	-.00120
12.907	15.080	.00000	.53770	-.01880	.52400	.12180	4.30250	-.14980	-.00040	.00140	-.00380
12.894	17.250	.00000	.63030	-.02080	.60810	.16709	3.63920	-.17260	-.00110	.00180	-.00280
12.855	19.490	.00000	.74340	-.02360	.70860	.22579	3.13840	-.20360	-.00020	.00220	-.00140
12.930	21.710	.00000	.85750	-.02690	.80660	.29221	2.76040	-.23350	.00030	.00250	-.00490
12.891	23.980	.02000	.99970	-.03180	.92630	.37723	2.45560	-.27660	.00320	.00250	-.01460
12.937	26.200	.04000	1.09360	-.03530	.99690	.45118	2.20950	-.29760	.00420	.00320	-.02270
GRADIENT		.00000	.03191	-.00058	.03177	.00057	2.93620	-.00940	-.00003	.00005	-.00007

RUN NO. 98/ 0 RN/L = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.509	-2.090	.00000	-.07110	.00690	-.07080	.00947	-7.47830	.01760	-.00050	-.00090	.00220
19.483	-1.010	.00000	-.03900	.00780	-.03890	.00850	-4.57400	.00790	-.00050	-.00090	.00210
19.440	.050	.00000	-.00530	.00800	-.00530	.00795	-.66820	-.00190	-.00050	-.00080	.00200
19.529	1.150	.00000	.02930	.00760	.02910	.00819	3.55400	-.01200	-.00060	-.00060	.00120
19.476	2.220	.00000	.06300	.00660	.06270	.00899	6.97490	-.02210	-.00050	-.00030	.00080
19.460	3.360	.00000	.09970	.00450	.09930	.01036	9.58450	-.03280	-.00050	-.00040	.00090
19.460	4.430	.00000	.13340	.00200	.13290	.01235	10.75900	-.04220	-.00060	-.00040	.00080
19.446	6.650	.00000	.20530	-.00450	.20550	.01941	10.58800	-.06290	-.00040	.00010	-.00050
19.443	8.860	.00000	.29340	-.01310	.28890	.03178	9.03140	-.08600	-.00050	.00040	-.00170
19.476	11.120	.01000	.37840	-.01830	.37480	.05500	6.81500	-.11020	.00000	.00030	-.00280
19.469	13.370	.01000	.46280	-.02320	.45570	.08440	5.39920	-.13110	.00030	.00080	-.00410
19.466	15.610	.01000	.54370	-.02320	.52990	.12394	4.27540	-.14900	.00050	.00120	-.00410
19.433	17.890	.00000	.63670	-.02340	.61310	.17333	3.53740	-.17380	-.00170	.00290	-.00450
19.404	20.210	.00000	.77040	-.02750	.73250	.24035	3.04750	-.21380	.00050	.00240	-.00290
19.384	22.610	.01000	.89490	-.03170	.83830	.31481	2.66290	-.24690	.00070	.00210	-.00790
19.440	25.000	.05000	1.03450	-.03620	.95280	.40444	2.35590	-.28910	.00370	.00270	-.02150
19.410	27.280	.07000	1.12830	-.04030	1.02130	.48127	2.12200	-.30890	.00320	.00270	-.02640
GRADIENT		.00000	.03148	-.00075	.03136	.00044	2.97416	-.00322	-.00001	.00010	-.00026

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING IV 53-80-0008

AMES 12-086 (LA65)

(JNC026) (18 APR 77)

REFERENCE DATA

SREF = .0694 SQ. M. XMRP = .3168 M. XB
 LREF = .3236 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 53.000
 FILSWP = 80.000 TESWP = 7.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 97/ 0 RN/L = 7.99 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
26.300	-2.170	.00000	-.07370	.00630	-.07340	.00906	-8.11070	.0.820	-.00050	-.00100	.00240
26.255	-1.090	.00000	-.04010	.00760	-.03990	.00833	-4.79760	.00810	-.00060	-.00090	.00220
26.251	.060	.00000	-.00400	.00790	-.00410	.00793	-.51110	-.00240	-.00050	-.00080	.00160
26.241	1.180	.00000	.03050	.00760	.03040	.00827	3.67380	-.01240	-.00050	-.00070	.00140
26.179	2.290	.00000	.06580	.00650	.06550	.00916	7.15080	-.02290	-.00060	-.00050	.00130
26.169	3.470	.00000	.10230	.00430	.10190	.01047	9.72940	-.03330	-.00050	-.00030	.00040
26.169	4.530	.00000	.13620	.00190	.13560	.01268	10.69400	-.04290	-.00050	-.00020	.00010
26.169	5.720	.00000	.17660	-.00190	.17590	.01567	11.22400	-.05460	-.00050	.00000	-.00060
26.156	6.830	.00000	.21350	-.00560	.21270	.01980	10.74300	-.06490	-.00050	.00030	-.00130
26.278	9.150	.01000	.29930	-.01450	.29580	.03313	8.95840	-.08790	-.00030	.00060	-.00230
26.258	11.500	.01000	.38680	-.02070	.38510	.05719	6.73400	-.11290	-.00010	.00070	-.00370
26.235	13.840	.01000	.47710	-.02470	.46920	.09022	5.20030	-.13370	.00080	.00170	-.00560
26.258	16.190	.01000	.56120	-.02410	.54560	.13330	4.09320	-.15320	-.00140	.00040	-.00310
26.232	18.570	.00000	.66160	-.02690	.63580	.18518	3.43310	-.18000	-.00260	.00190	-.00400
26.159	21.060	.00000	.80620	-.03010	.76320	.26163	2.91690	-.22410	.00060	.00250	-.00480
26.241	23.610	.04000	.94070	-.03490	.87600	.34473	2.54100	-.26180	.00310	.00160	-.01210
26.159	26.090	.09000	1.07370	-.03910	.98140	.43712	2.24520	-.30010	.00340	.00250	-.02610
26.169	28.530	.09000	1.16190	-.04400	1.04180	.51626	2.01810	-.31530	.00170	.00260	-.02710
	GRADIENT	.00000	.03130	-.00067	.03117	.00052	2.96223	-.00911	.00000	.00012	-.00034

WING IV 53-75-0008

AMES 12-086 (LA65)

(JNC027) (18 APR 77)

REFERENCE DATA

SREF = .0603 SQ. M. XMRP = .2349 M. XB
 LREF = .2549 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 53.000
 FILSWP = 75.000 TESWP = 7.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 102/ 0 RN/L = 3.93 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
12.970	-1.990	.00000	-.08620	.00740	-.08590	.01037	-8.28300	.0280	-.00030	-.00100	.00180
12.944	-.990	.00000	-.05110	.00790	-.05100	.00879	-5.79760	.00580	-.00030	-.00090	.00170
12.937	.040	.00000	-.01490	.00820	-.01500	.00818	-1.82780	-.00160	-.00030	-.00080	.00170
12.911	1.070	.00000	.02640	.00790	.02620	.00839	3.12390	-.00970	-.00020	-.00070	.00160
12.907	2.120	.00000	.06440	.00650	.06420	.00893	7.18070	-.01720	-.00040	-.00070	.00290
12.907	3.230	.00000	.10510	.00460	.10470	.01054	9.93460	-.02570	-.00030	-.00060	.00270
12.898	4.220	.00000	.14320	.00240	.14260	.01292	11.04300	-.03330	-.00030	-.00060	.00280
12.904	6.310	.00000	.22200	-.00490	.22120	.01955	11.31400	-.04980	-.00030	-.00090	.00370
12.921	8.420	.00000	.30560	-.01430	.30440	.03053	9.96940	-.06740	-.00040	-.00140	.00500
12.907	10.450	.00000	.38680	-.02220	.38440	.04835	7.95000	-.08400	-.00060	-.00150	.00460
12.907	12.600	.00000	.48270	-.02670	.47690	.07927	6.01590	-.10400	-.00030	-.00050	.00390
12.894	14.700	.00000	.58270	-.02820	.57080	.12050	4.73660	-.12190	.00050	.00030	.00390
12.888	16.800	.00000	.68140	-.03200	.66160	.16635	3.97720	-.14080	.00200	-.00080	.00480
12.868	18.960	.00000	.80380	-.03720	.77230	.22605	3.41640	-.16810	.00210	-.00070	.00680
12.891	21.080	.00000	.93080	-.04390	.88430	.29389	3.00900	-.19440	-.00010	-.00060	.00770
12.875	23.210	-.01000	1.04230	-.05090	.97800	.36406	2.68640	-.21490	-.00130	-.00080	.00880
12.871	25.350	-.01000	1.10170	-.05590	1.01960	.42121	2.42050	-.21460	-.00590	-.00160	.01430
GRADIENT		.00000	.03705	-.00080	.03692	.00041	3.37681	-.00744	-.00000	.00067	.00021

RUN NO. 101/ 0 RN/L = 5.89 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.420	-2.070	.00000	-.08430	.00680	-.08400	.00983	-8.55140	.01330	-.00010	-.00050	.00120
19.397	-1.010	.00000	-.04600	.00760	-.04590	.00841	-5.44890	.00600	-.00010	-.00050	.00140
19.374	.050	.00000	-.00800	.00800	-.00800	.00802	-.99830	-.00220	-.00010	-.00030	.00120
19.319	1.120	.00000	.03170	.00760	.03160	.00824	3.82970	-.01030	-.00010	-.00020	.00100
19.312	2.170	.00000	.06990	.00640	.06960	.00904	7.69220	-.01810	-.00010	-.00020	.00080
19.345	3.290	.00000	.11180	.00440	.11140	.01083	10.28500	-.02670	-.00010	-.00020	.00160
19.309	4.360	.00000	.15110	.00140	.15050	.01292	11.65400	-.03430	-.00020	.00000	.00140
19.345	6.430	.00000	.22930	-.00590	.22850	.01982	11.53100	-.05130	.00000	-.00060	.00220
19.325	8.550	.00000	.31700	-.01650	.31590	.03083	10.24600	-.06950	-.00020	-.00120	.00320
19.351	10.690	.00000	.40080	-.02520	.39960	.04958	8.03900	-.08630	-.00100	-.00210	.00520
19.319	12.840	.00000	.49230	-.03000	.48650	.08014	6.07180	-.10570	-.00070	-.00110	.00450
19.292	15.030	.00000	.59400	-.03290	.58220	.12222	4.76400	-.12590	-.00100	-.00110	.00370
19.328	17.200	-.01000	.68860	-.03700	.66870	.16834	3.97220	-.14190	-.00080	.00020	.00330
19.279	19.340	.00000	.79960	-.04130	.76730	.22546	3.40300	-.16790	-.00310	-.00060	.00520
19.286	21.550	-.01000	.93760	-.04980	.89040	.29811	2.98680	-.19950	-.00050	-.00030	.00570
19.341	23.790	-.01000	1.05540	-.05780	.98900	.37292	2.65210	-.22130	.00190	-.00020	.00510
19.296	25.860	-.01000	1.06500	-.06060	.96480	.40990	2.40250	-.20260	-.00030	-.00040	.00600
GRADIENT		.00000	.03665	-.00081	.03651	.00051	3.35518	-.00753	-.00001	.00007	.00002

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AMES 12FT 086-1-12 (LA-65) SHIPS 11

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WING IV 53-75-0008

AMES 12-086 (LA65)

(JNC027) (18 APR 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = .0603 SQ. M. XMRP = .2349 M. XB
 LREF = .2549 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

T/C = .080 LESWP = 53.000
 FILSWP = 75.000 TESWP = 7.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 100/ 0 RN/L = 7.91 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
26.064	-2.110	.00000	-.08330	.00650	-.08300	.00959	-8.65490	.0.380	.00000	-.00010	-.00080
26.048	-1.040	.00000	-.04420	.00770	-.04410	.00847	-5.20630	.00550	.00000	.00000	-.00060
26.008	.050	.00000	-.00600	.00820	-.00600	.00815	-.73120	-.00270	-.00010	.00010	-.00080
25.920	1.150	.00000	.03600	.00770	.03580	.00845	4.23810	-.01140	.00010	.00000	-.00010
25.953	2.220	.00000	.07460	.00650	.07430	.00942	7.88570	-.01910	.00000	.00000	-.00030
25.953	3.330	.00000	.11430	.00440	.11390	.01099	10.36200	-.02730	.00000	-.00010	.00030
25.930	4.390	.00000	.15320	.00150	.15270	.01317	11.59500	-.03560	-.00010	.00000	.00010
25.956	5.450	.00000	.19320	-.00230	.19260	.01607	11.98400	-.04360	.00000	-.00020	.00050
25.943	6.550	.00000	.23830	-.00690	.23760	.02034	11.68000	-.05320	.00020	-.00040	.00060
25.989	8.730	.00000	.32580	-.01780	.32470	.03185	10.19300	-.07110	-.00010	-.00140	.00290
25.953	10.930	.01000	.41110	-.02740	.40880	.05102	8.01260	-.08350	-.00080	-.00250	.00460
25.976	13.120	.00000	.50370	-.03250	.49800	.08265	6.02510	-.10710	-.00130	-.00230	.00560
25.999	15.430	.00000	.61190	-.03590	.59940	.12821	4.67550	-.12820	-.00020	-.00060	.00370
25.900	17.580	.00000	.69870	-.03830	.67760	.17454	3.83230	-.14310	-.00380	-.00070	.00390
25.894	19.780	.00000	.81450	-.04410	.78140	.23416	3.33710	-.16950	-.00320	-.00070	.00450
25.871	22.090	-.01000	.95980	-.05340	.90940	.31148	2.91980	-.20280	-.00060	-.00070	.00540
25.890	24.340	-.01000	1.07600	-.06150	1.00570	.38754	2.59510	-.22530	.00080	-.00040	.00560
25.841	26.470	-.01000	1.07080	-.06410	.99720	.41983	2.35130	-.19980	-.00030	-.00080	.00690
GRADIENT		.00000	.03641	-.00077	.03628	.00056	3.30576	-.00757	-.00001	-.00000	.00016

WING IV 53-70-0008

AMES 12-086 (LA65)

(JNC028) (18 APR 77)

REFERENCE DATA

SREF = .0557 SQ. M. XMRP = .1914 M. XB
 LREF = .2226 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 53.000
 FILSWP = 70.000 TESWP = 7.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 104/ 0 RN/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
19.496	-2.130	.00000	-.08650	.00670	-.08620	.00994	-8.67320	.00760	.00000	.00030	.00050
19.473	-1.070	.00000	-.04640	.00790	-.04620	.00878	-5.26420	.00060	.00000	.00040	.00010
19.601	.030	.00000	-.00240	.00860	-.00240	.00861	-.27990	-.00660	.00000	.00040	.00010
19.594	1.130	.00000	.03990	.00840	.03970	.00916	4.33170	-.01430	.00000	.00040	.00020
19.571	2.240	.00000	.08320	.00660	.08290	.00987	8.39510	-.02140	-.00010	.00050	.00020
19.561	3.370	.00000	.12720	.00450	.12670	.01193	10.62300	-.02790	-.00010	.00050	-.00010
19.586	4.430	.00000	.17020	.00130	.16960	.01446	11.73300	-.03500	.00000	.00050	-.00030
19.532	6.610	.00000	.25980	-.00730	.25890	.02263	11.43900	-.04910	.00010	.00030	-.00040
19.545	8.820	.00000	.35370	-.01890	.35240	.03561	9.89720	-.06420	.00000	.00030	.00010
19.571	11.060	.00000	.44870	-.02670	.44550	.05984	7.44460	-.07890	.00180	.00380	-.00610
19.506	13.210	.00000	.53890	-.03370	.53240	.09037	5.89150	-.09410	.00320	.00420	-.00790
19.529	15.470	.00000	.63590	-.03800	.62300	.13295	4.68580	-.10810	.00180	.00260	-.00790
19.512	17.740	.00000	.75480	-.03900	.73080	.19284	3.78950	-.11920	-.00430	.00000	.00110
19.469	19.970	-.01000	.86200	-.04480	.82540	.25233	3.27120	-.13300	-.00410	.00010	.00180
19.463	22.140	.00000	.91790	-.04830	.86840	.30117	2.88340	-.13070	.00710	.00130	-.00450
19.492	24.230	.00000	.94100	-.05030	.87870	.34034	2.58190	-.12400	.00530	.00050	-.00400
19.460	26.230	.00000	.96090	-.05060	.88430	.37938	2.33090	-.12610	.00140	-.00100	.00160
GRADIENT		.00000	.03909	-.00081	.03895	.00069	3.30400	-.00649	-.00001	.00003	-.00009

RUN NO. 103/ 0 RN/L = 7.90 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
26.064	-2.180	.00000	-.09040	.00650	-.09000	.00989	-9.10680	.00850	-.00010	.00040	.00000
26.005	-1.120	.00000	-.04950	.00810	-.04930	.00902	-5.46560	.00120	-.00010	.00020	.00040
25.995	.090	.00000	-.00270	.00860	-.00270	.00855	-.31480	-.00570	-.00010	.00030	.00020
25.966	1.200	.00000	.04010	.00810	.04000	.00893	4.47550	-.01400	-.00010	.00030	.00020
26.002	2.360	.00000	.08710	.00630	.08680	.00984	8.81840	-.02150	-.00010	.00030	.00010
25.956	3.470	.00000	.12960	.00370	.12810	.01150	11.13900	-.02760	-.00010	.00040	-.00020
26.005	4.550	.00000	.17240	.00070	.17180	.01440	11.93700	-.03470	-.00020	.00030	.00000
25.943	6.840	.00000	.27050	-.00920	.26970	.02308	11.68100	-.05100	.00000	.00020	.00000
25.959	9.080	.00000	.36360	-.02180	.36240	.03588	10.10000	-.06550	-.00010	.00040	-.00010
25.949	11.340	.00000	.45330	-.03320	.45090	.05665	7.96030	-.07930	.00020	.00100	-.00120
25.923	13.660	.00000	.55440	-.03780	.54770	.09417	5.81600	-.09520	.00230	.00350	-.00790
25.920	15.960	.01000	.65260	-.03640	.63810	.14247	4.47870	-.10840	.00310	.00250	-.00810
25.838	18.300	.00000	.77670	-.04280	.75090	.20319	3.69570	-.12430	-.00280	.00020	-.00070
25.818	20.640	.00000	.87690	-.04900	.83760	.26411	3.17130	-.13370	-.00520	.00010	.00070
25.851	22.780	.00000	.91210	-.05010	.86040	.30592	2.80310	-.12770	.00230	.00070	-.00250
25.792	24.910	.00000	.94950	-.05180	.88300	.35293	2.50180	-.12790	.00470	.00100	-.00420
25.848	27.000	.00000	.97910	-.05240	.89610	.39789	2.25210	-.13240	-.00040	-.00090	.00240
GRADIENT		.00000	.03901	-.00090	.03886	.00062	3.33913	-.00638	-.00001	.00000	-.00004

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS 11

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WING IV 53-65-0008

AMES 12-086 (LA65)

(JNC029) (18 APR 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = .0528 SQ. M. XMRP = .1639 M. XB
 LREF = .2038 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

T/C = .080 LESWP = 53.000
 FILSWP = 65.000 TESWP = 7.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 106/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
19.620	-2.150	.00000	-.09540	.00460	-.09520	.00822	-11.58700	.0250	.00020	-.00010	.00120
19.637	-1.100	.00000	-.05310	.00620	-.05290	.00718	-7.37730	-.00380	.00010	-.00010	.00100
19.640	.030	.00000	-.00670	.00640	-.00670	.00641	-1.03880	-.01030	.00010	-.00010	.00110
19.673	1.140	.00000	.03760	.00630	.03750	.00701	5.34130	-.01620	.00010	-.00020	.00100
19.650	2.320	.00000	.08580	.00440	.08560	.00788	10.85300	-.02240	.00010	-.00010	.00090
19.630	3.430	.00000	.13310	.00220	.13270	.01015	13.07500	-.02780	.00000	-.00020	.00080
19.650	4.540	.00000	.17900	-.00150	.17850	.01271	14.04000	-.03300	.00000	.00010	-.00050
19.630	6.750	.00000	.27350	-.01050	.27280	.02177	12.53100	-.04480	.00010	.00010	-.00070
19.611	8.990	.00000	.37520	-.02200	.37400	.03690	10.13500	-.05740	.00000	-.00040	-.00080
19.620	11.260	.00000	.47050	-.03290	.46780	.05962	7.84630	-.06900	-.00040	-.00040	-.00100
19.620	13.500	.00000	.56560	-.04070	.55940	.09243	6.05250	-.08100	-.00090	-.00060	-.00130
19.594	15.710	.01000	.65410	-.04580	.64210	.13302	4.82720	-.09090	.00000	-.00010	-.00280
19.594	18.000	.00000	.75740	-.05000	.73570	.18649	3.94520	-.10290	.00110	.00060	-.00270
19.561	20.150	.00000	.81200	-.04570	.77800	.23685	3.28490	-.10390	.00190	.00010	.00060
19.519	22.270	.00000	.87760	-.04760	.83020	.28662	2.87630	-.10990	.00660	-.00080	.00110
19.436	24.440	.00000	.93610	-.04900	.87240	.34274	2.54550	-.11660	.00330	-.00090	.00290
19.548	26.630	.00000	.99570	-.04990	.91240	.40173	2.27110	-.12580	.00370	-.00020	.00040
	GRADIENT	.00000	.04100	-.00091	.04089	.00067	4.12668	-.00530	-.00003	.00001	-.00018

RUN NO. 105/ 0 RN/L = 7.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
26.294	-2.280	.00000	-.09770	.00470	-.09740	.00854	-11.40800	.00260	.00010	-.00000	.00080
26.261	-1.140	.00000	-.05360	.00630	-.05350	.00735	-7.27770	-.00380	.00020	-.00010	.00080
26.245	.050	.00000	-.00510	.00590	-.00510	.00678	-.75370	-.01030	.00010	.00000	.00070
26.205	1.210	.00000	.04160	.00620	.04150	.00707	5.86250	-.01650	.00020	.00020	-.00030
26.136	2.320	.00000	.08620	.00480	.08590	.00825	10.41500	-.02210	.00020	.00020	-.00060
26.037	3.490	.00000	.13350	.00200	.13310	.01010	13.18900	-.02740	.00020	.00020	-.00050
26.140	4.640	.00000	.18260	-.00160	.18210	.01319	13.80100	-.03340	.00000	.00010	-.00070
26.123	6.990	.00000	.28550	-.01210	.28490	.02272	12.53400	-.04550	-.00010	.00010	-.00090
26.179	9.300	.00000	.38560	-.02600	.38490	.03667	10.49100	-.05920	.00010	-.00010	-.00110
26.215	11.640	.01000	.48480	-.03220	.48250	.05044	7.99300	-.06980	-.00040	-.00060	-.00080
26.153	13.990	.00000	.58250	-.04650	.57650	.09568	6.02510	-.08210	-.00140	-.00140	.00100
26.120	16.280	.01000	.67250	-.05080	.65990	.13973	4.72170	-.09360	.00050	.00010	-.00260
26.156	18.580	.00000	.76300	-.05500	.74070	.19097	3.87880	-.10200	.00070	.00020	-.00230
26.104	20.750	.01000	.80160	-.04970	.76720	.23758	3.22910	-.10580	.00190	.00040	-.00400
26.054	22.960	.01000	.86410	-.04990	.81510	.29117	2.79950	-.11440	.00040	.00060	-.00320
26.150	25.110	.01000	.91570	-.05080	.85080	.34255	2.48370	-.12300	.00250	.00020	-.00400
26.097	27.360	.00000	.98700	-.05350	.90120	.40514	2.21890	-.12880	.00250	.00020	-.00210
	GRADIENT	.00000	.04046	-.00091	.04034	.00065	3.95751	-.00517	-.00001	.00003	-.00026

WING IV 53-60-0008

AMES 12-086 (LA65)

(JNC030) (18 APR 77)

REFERENCE DATA

SREF = .0509 SQ. M. XMRP = .1446 M. XB
 LREF = .1916 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 53.000
 FILSWP = 60.000 TESWP = 7.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 108/ 0 RN/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.607	-2.160	.00000	-.10320	.00610	-.10290	.00999	-10.29200	.0450	.00010	-.00010	.00100
19.604	-1.050	.00000	-.05630	.00740	-.05610	.00846	-6.63540	-.00140	.00020	.00000	.00060
19.565	.030	.00000	-.01130	.00820	-.01130	.00824	-1.37500	-.00670	.00010	.00010	.00060
19.578	1.140	.00000	.03670	.00760	.03650	.00832	4.39000	-.01180	.00020	.00010	.00040
19.555	2.210	.00000	.08360	.00640	.08330	.00954	8.64330	-.01690	.00020	.00010	.00020
19.584	3.320	.00000	.13160	.00390	.13110	.01150	11.40000	-.02130	.00020	.00020	-.00020
19.614	4.370	.00000	.17650	.00040	.17590	.01386	12.69400	-.02540	.00030	.00020	-.00040
19.591	6.560	.00000	.27390	-.00920	.27320	.02216	12.32600	-.03470	.00030	.00030	-.00050
19.591	8.720	.00000	.37880	-.02230	.37780	.03536	10.68500	-.04510	.00030	.00030	-.00090
19.601	10.900	.00000	.47730	-.03590	.47550	.05504	8.63920	-.05440	.00000	-.00020	-.00020
19.584	13.070	.00000	.57220	-.04810	.56830	.08252	6.88650	-.06380	.00050	.00070	-.00180
19.558	15.210	.00000	.65860	-.05700	.65050	.11784	5.52040	-.07240	-.00030	.00000	-.00070
19.538	17.390	.00000	.74100	-.05990	.72500	.16430	4.41270	-.08260	-.00160	-.00080	.00200
19.519	19.490	.00000	.81450	-.06100	.78820	.21425	3.67830	-.09350	-.00150	-.00070	.00290
19.551	21.630	.00000	.88080	-.05990	.84080	.26904	3.12520	-.10720	-.00020	-.00080	.00270
19.512	23.700	.00000	.93230	-.05780	.87690	.32185	2.72470	-.11550	.00090	-.00100	.00290
19.476	25.720	.00000	.96180	-.05640	.89100	.36655	2.43070	-.12010	-.00070	.00010	.00260
GRADIENT		.00000	.04293	-.00085	.04273	.00062	3.77323	-.00458	.00002	.00004	-.00020

RUN NO. 107/ 0 RN/L = 7.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
26.255	-2.130	.00000	-.10340	.00650	-.10310	.01031	-9.99670	.00520	.00010	.00000	.00060
26.232	-1.080	.00000	-.05850	.00780	-.05830	.00893	-6.53390	-.00080	.00010	.00010	.00030
26.209	.050	.00000	-.01080	.00810	-.01080	.00813	-1.32360	-.00610	.00010	.00000	.00010
26.261	1.170	.00000	.03900	.00780	.03880	.00860	4.51220	-.01150	.00020	.00010	-.00010
26.209	2.300	.00000	.08590	.00610	.08560	.00951	9.01750	-.01630	.00020	.00010	-.00030
26.150	3.410	.00000	.13460	.00340	.13410	.01142	11.74500	-.02110	.00020	.00010	-.00040
26.123	4.470	.00000	.18300	.00030	.17950	.01401	12.80900	-.02540	.00020	.00020	-.00060
26.143	6.700	.00000	.28240	-.01070	.28170	.02235	12.60300	-.03530	.00030	.00020	-.00090
26.117	8.920	.00000	.38350	-.02470	.38270	.03509	10.90600	-.04440	.00050	.00010	-.00110
26.153	11.180	.00000	.48780	-.04100	.48650	.05432					
26.117	13.400	.00000	.58190	-.05470	.57880	.08165	7.08830	-.06340	.00010	-.00010	-.00110
26.100	15.580	.00000	.66890	-.06450	.66170	.11754	5.62930	-.07230	-.00030	-.00050	-.00080
26.091	17.770	.00000	.75280	-.06950	.73770	.16457	4.48290	-.08310	.00030	-.00030	-.00110
26.071	19.920	.00000	.82530	-.06760	.79890	.21761	3.67130	-.09610	.00000	-.00030	-.00070
26.071	22.090	.00000	.88740	-.06560	.84690	.27283	3.10430	-.11340	.00080	-.00070	-.00050
26.087	24.120	.00000	.92290	-.06010	.86690	.32223	2.69030	-.12450	.00030	-.00080	.00060
25.031	26.150	.01000	.91390	-.05560	.84490	.35293	2.39470	-.12590	.00570	-.00070	-.00480
GRADIENT		.00000	.04299	-.00098	.04286	.00057	3.72014	-.00460	.00002	.00002	-.00017

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

PAGE 53

WING V 60-60-0008

AMES 12-086 (LA65)

(JNC031) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .1456 M. XB
 LREF = .1942 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 60.000
 FII SWP = 60.000 TESWP = .000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 37/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
6.293	-1.920	.00000	-.06530	.01220	-.06480	.01441	-4.49880	.0210	-.00010	-.00070	.00080
6.283	-.960	.00000	-.02030	.01270	-.02010	.01303	-1.54140	-.00340	-.00010	-.00080	.00060
6.283	.070	.00000	.02020	.01330	.02020	.01329	1.51720	-.00830	-.00030	-.00110	.00370
6.273	1.100	.00000	.06530	.01290	.06510	.01420	4.58370	-.01410	-.00030	-.00110	.00420
6.270	2.140	.00000	.10920	.01140	.10870	.01547	7.02660	-.01950	-.00030	-.00080	.00400
6.273	3.130	.00000	.15510	.00940	.15430	.01785	8.64480	-.02510	-.00030	-.00110	.00440
6.267	4.140	.00000	.19670	.00660	.19570	.02081	9.40790	-.03010	-.00040	-.00100	.00490
6.263	6.240	.00000	.28160	-.00100	.28000	.02958	9.46630	-.03960	-.00030	-.00080	.00330
6.257	8.250	.00000	.37070	-.00920	.36820	.04409	8.35130	-.05030	-.00020	-.00030	.00360
6.260	10.330	.00000	.45980	-.01960	.45590	.06318	7.21540	-.06000	-.00030	-.00040	.00320
6.250	12.370	.00000	.54440	-.03110	.53840	.08523	6.24340	-.06960	-.00050	-.00090	.00680
6.250	14.430	.00000	.63220	-.04000	.62220	.11880	5.23740	-.07960	-.00050	-.00120	.00640
6.240	16.490	.00000	.72300	-.04730	.70670	.15934	4.42090	-.09020	-.00050	-.00120	.00610
6.247	18.540	.00000	.80280	-.05160	.77760	.20634	3.76820	-.09970	.00110	-.00060	.00590
6.254	20.570	.00000	.89640	-.05380	.85820	.26465	3.24270	-.11200	.00070	-.00100	.00540
6.247	22.660	.00000	1.00190	-.05680	.94650	.33362	2.83700	-.12200	.00020	.00000	.00030
6.247	24.700	.00000	1.10100	-.06180	1.02610	.40387	2.54070	-.13340	-.00070	.00010	-.00020
GRADIENT		.00000	.04311	-.00089	.04287	.00109	2.37818	-.00532	-.00005	-.00004	.00071

RUN NO. 36/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
13.078	-1.980	.00000	-.08920	.00910	-.08880	.01222	-7.26890	.00670	-.00020	-.00030	.00030
13.072	-1.000	.00000	-.04660	.01010	-.04640	.01094	-4.24150	.00120	-.00010	-.00030	-.00020
13.055	.090	.00000	.00320	.01060	.00320	.01061	.30390	-.00630	-.00010	-.00030	.00020
13.098	1.170	.00000	.04540	.01050	.04520	.01139	3.96460	-.01260	-.00010	-.00040	.00000
13.081	2.130	.00000	.08700	.00990	.08660	.01226	7.06090	-.01790	-.00020	-.00030	.00040
13.085	3.200	.00000	.13110	.00660	.13060	.01392	9.38080	-.02280	-.00020	-.00030	-.00010
13.062	4.230	.00000	.17490	.00330	.17410	.01623	10.72300	-.02920	-.00030	-.00050	.00160
13.075	6.340	.00000	.26390	-.00510	.26290	.02412	10.90000	-.03990	-.00030	-.00040	.00120
13.022	8.440	.00000	.35360	-.01600	.35220	.03605	9.76820	-.04970	-.00040	-.00120	.00300
13.032	10.540	.00000	.44410	-.02800	.44180	.05370	8.22610	-.05920	-.00070	-.00130	.00360
13.039	12.650	.00000	.53550	-.04000	.53130	.07823	6.79070	-.06940	-.00020	-.00050	.00240
13.029	14.770	.00000	.62530	-.04960	.61730	.11142	5.53990	-.07980	-.00050	-.00010	.00170
13.016	16.930	.00000	.72420	-.05610	.70920	.15724	4.51010	-.09290	.00030	.00010	.00170
13.029	18.940	.00000	.80890	-.05990	.78460	.20590	3.81040	-.10450	-.00260	-.00050	.00380
12.999	21.070	.00000	.91510	-.06490	.87730	.26838	3.26970	-.12080	-.00340	-.00040	.00550
13.062	23.190	.00000	1.01610	-.07020	.96160	.33556	2.86570	-.13490	-.00460	-.00030	.00670
13.012	25.240	.00000	1.11270	-.07580	1.03880	.40599	2.55930	-.14860	-.00090	.00030	.00210
GRADIENT		.00000	.04235	-.00089	.04218	.00069	3.02795	-.00576	-.00002	-.00002	.00015

WING V 60-60-0008

AMES 12-086 (LA65)

(JNC031) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .1456 M. XB
 LREF = .1942 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 60.000
 FILSWP = 60.000 TESWP = .000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 35/ 0 RN/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.551	-2.070	.00000	-.09080	.00850	-.09040	.01178	-7.67410	.00630	-.00010	-.00010	.00030
19.551	-1.030	.00000	-.04910	.00970	-.04900	.01059	-4.62370	.00090	-.00010	-.00010	.00030
19.594	.050	.00000	-.00160	.01060	-.00160	.01056	-.15480	-.00660	-.00010	-.00010	.00050
19.525	1.150	.00000	.04400	.00970	.04380	.01060	4.13270	-.01240	-.00010	-.00020	.00030
19.561	2.200	.00000	.08770	.00830	.08730	.01168	7.47600	-.01830	-.00020	-.00020	.00120
19.571	3.290	.00000	.13250	.00560	.13200	.01318	10.01200	-.02400	-.00020	-.00030	.00100
19.551	4.320	.00000	.17640	.00240	.17580	.01568	11.21200	-.02930	-.00030	-.00040	.00160
19.548	6.490	.00000	.26440	-.00680	.26350	.02312	11.39700	-.03910	-.00030	-.00060	.00190
19.574	8.610	.00000	.35750	-.01900	.35630	.03478	10.24300	-.04990	-.00030	-.00080	.00150
19.574	10.770	.00000	.44980	-.03270	.44800	.05194	8.62500	-.06020	-.00010	-.00010	.00100
19.614	12.960	.00000	.53910	-.04430	.53530	.07773	6.86690	-.06990	.00010	.00020	.00060
19.551	15.150	.00000	.63030	-.05540	.62290	.11130	5.59670	-.08020	-.00020	.00030	.00030
19.548	17.270	.00000	.72100	-.06170	.70680	.15516	4.55520	-.09290	-.00030	.00000	.00090
19.499	19.370	.00000	.81630	-.06720	.79240	.20740	3.82030	-.10690	-.00100	-.00010	.00160
19.512	21.550	.00000	.91610	-.07280	.87880	.26877	3.26980	-.12250	-.00190	-.00010	.00210
19.495	23.780	.00000	1.02960	-.07960	.97430	.34235	2.84580	-.13900	-.00250	-.00020	.00410
19.506	25.870	.00000	1.11780	-.08390	1.04240	.41223	2.52860	-.15040	-.00060	.00020	.00290
	GRADIENT	.00000	.04186	-.00096	.04171	.00060	3.12504	-.00562	-.00003	-.00005	.00020

RUN NO. 34/ 0 RN/L = 7.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
26.182	-2.170	.00000	-.09870	.00760	-.09830	.01135	-8.66410	.00780	-.00020	.00010	-.00140
26.186	-1.050	.00000	-.05430	.00960	-.05410	.01058	-5.11460	.00100	-.00020	.00000	-.00060
26.097	.090	.00000	-.00720	.00990	-.00720	.00992	-.73090	-.00550	-.00010	.00000	-.00070
26.097	1.140	.00000	.03580	.00930	.03570	.01003	3.55570	-.01180	-.00020	-.00010	.00000
26.136	2.210	.00000	.08240	.00790	.08210	.01112	7.39100	-.01810	-.00020	-.00010	-.00020
26.130	3.330	.00000	.12630	.00540	.12580	.01275	9.86390	-.02360	-.00020	-.00020	.00040
26.117	4.380	.00000	.17180	.00190	.17120	.01500	11.41200	-.02930	-.00040	-.00020	.00040
26.150	6.610	.00000	.26760	-.00810	.26670	.02274	11.73100	-.04060	-.00040	-.00040	.00090
26.117	8.830	.00000	.36220	-.02130	.36120	.03450	10.46900	-.05090	-.00040	-.00030	.00050
26.136	11.030	.00000	.45130	-.03500	.44960	.05197	8.65110	-.06030	-.00030	.00040	-.00040
26.104	13.230	.00000	.54250	-.04850	.53920	.07692	7.00980	-.07030	-.00010	.00120	-.00100
26.051	15.440	.00000	.63150	-.06010	.62470	.11018	5.67010	-.08000	-.00030	.00090	-.00040
26.041	17.610	.00000	.72350	-.06830	.71030	.15378	4.61880	-.09240	-.00050	.00020	.00020
26.045	19.850	.00000	.81920	-.07350	.79550	.20901	3.80590	-.10680	-.00040	.00030	-.00020
26.939	22.030	.00000	.92010	-.07830	.88230	.27251	3.23770	-.12310	-.00110	.00030	.00040
26.077	24.300	.00000	1.02660	-.08500	.97070	.34494	2.81400	-.14010	-.00200	.00040	.00140
26.054	26.460	.00000	1.12310	-.09130	1.04610	.41869	2.49850	-.15300	-.00120	.00070	-.00050
	GRADIENT	.00000	.04134	-.00089	.04119	.00054	3.22133	-.00567	-.00002	-.00005	.00026

REPRODUCTION OF
ORIGINAL PAGE IS POOR

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS 11

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WING V 60-80-0008

AMES 12-086 (LA65)

(JNC032) (18 APR 77)

REFERENCE DATA

SREF = .0675 SQ. M. XMRP = .3150 M. XB
 LREF = .3284 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 60.000
 FILSWP = 80.000 TESWP = .000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 111/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
13.065	-2.040	.00000	-.07130	.00700	-.07100	.00957	-7.41350	.00880	.00010	.00000	-.00070
13.085	-1.030	.00000	-.04100	.00800	-.04090	.00877	-4.65880	.00890	.00010	.00000	-.00060
13.049	.030	.00000	-.01040	.00830	-.01040	.00828	-1.25680	-.00070	.00010	.00020	-.00090
13.049	1.090	.00000	.02200	.00770	.02180	.00815	2.67880	-.01050	.00010	.00020	-.00080
13.032	2.160	.00000	.05720	.00680	.05690	.00897	6.34600	-.02180	.00010	.00020	-.00100
13.045	3.230	.00000	.08930	.00520	.08890	.01017	8.73890	-.03210	.00010	.00040	-.00110
13.058	4.290	.00000	.12210	.00310	.12150	.01222	9.94150	-.04170	.00010	.00040	-.00120
13.068	6.390	.00000	.18580	-.00210	.18490	.01861	9.93470	-.06090	.00000	.00060	-.00140
13.062	8.540	.00000	.25870	-.00760	.25700	.03090	8.31780	-.08160	-.00020	.00080	-.00160
13.062	10.680	.00000	.33830	-.01210	.33470	.05076	6.59410	-.10330	-.00060	.00070	-.00030
13.068	12.870	.00000	.42620	-.01300	.41840	.08229	5.08500	-.12610	.00020	.00110	-.00100
13.045	15.030	.00000	.52240	-.01420	.50820	.12179	4.17240	-.15200	-.00120	-.00010	-.00130
13.009	17.220	.01000	.62360	-.01750	.60080	.16783	3.58000	-.18010	.00110	-.00090	-.00310
13.062	19.430	.02000	.71910	-.01950	.68470	.22080	3.10090	-.20450	.00230	-.00100	-.00740
13.029	21.640	.03000	.84790	-.02300	.79670	.29124	2.73530	-.24620	.00350	-.00130	-.01090
13.052	23.830	.04000	.95890	-.02620	.88770	.36353	2.44190	-.27820	.00380	-.00120	-.01490
13.035	26.050	.04000	1.07300	-.03130	.97780	.44302	2.20710	-.30860	.00540	-.00160	-.01870
GRADIENT		.00000	.03065	-.00064	.03052	.00039	2.91644	-.00960	.00000	.00007	-.00009

RUN NO. 110/ 0 RN/L = 5.92 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.479	-2.130	.00000	-.07400	.00660	-.07370	.00934	-7.89350	.01990	.00010	-.00010	-.00040
19.463	-1.050	.00000	-.04100	.00760	-.04090	.00832	-4.91470	.00910	.00010	-.00010	-.00040
19.463	.010	.00000	-.00890	.00770	-.00890	.00772	-1.14940	-.00120	.00000	.00000	-.00070
19.483	1.130	.00000	.02480	.00750	.02460	.00794	3.10320	-.01170	.00000	.00010	-.00060
19.473	2.200	.00000	.05740	.00640	.05710	.00864	6.60680	-.02160	-.00010	.00030	-.00070
19.476	3.290	.00000	.09120	.00470	.09070	.00993	9.13390	-.03230	-.00010	.00030	-.00090
19.479	4.380	.00000	.12410	.00250	.12360	.01199	10.30100	-.04230	-.00010	.00030	-.00050
19.450	6.590	.00000	.19250	-.00380	.19170	.01826	10.49500	-.06250	-.00010	.00010	-.00040
19.460	8.740	.00000	.26480	-.01000	.26320	.03033	8.67800	-.08250	-.00030	-.00020	.00040
19.456	10.980	.00000	.34670	-.01460	.34510	.05194	6.64470	-.10530	-.00030	-.00060	.00100
19.466	13.260	.00000	.44000	-.01550	.43180	.08581	5.03220	-.12970	-.00070	-.00050	.00070
19.430	15.500	.01000	.52750	-.01760	.51310	.12397	4.13850	-.15140	.00020	.00010	-.00230
19.443	17.820	.02000	.64780	-.02050	.62300	.17877	3.48500	-.18750	.00220	-.00110	-.00460
19.427	20.090	.03000	.74920	-.02310	.71150	.23570	3.01880	-.21570	.00260	-.00150	-.00820
19.387	22.520	.05000	.86300	-.02660	.83050	.31558	2.63170	-.26050	.00350	-.00190	-.01180
19.364	24.750	.06000	.99320	-.03040	.91470	.38821	2.35610	-.29030	.00420	-.00200	-.01660
19.315	27.060	.07000	1.11240	-.03630	1.00710	.47376	2.12570	-.32230	.00640	-.00230	-.02030
GRADIENT		.00000	.03043	-.00064	.03030	.00040	2.97471	-.00953	-.00004	.00008	-.00004

WING V 60-80-0008

AMES 12-086 (LA65)

(JNC032) (18 APR 77)

REFERENCE DATA

SREF = .0675 SQ. M. XMRP = .3150 M. XB
 LREF = .3284 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 60.000
 FILSWP = 80.000 TESWP = .000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 109/ 0 RN/L = 7.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
26.153	-2.210	.00000	-.07580	.00630	-.07550	.00922	-8.19210	.0030	.00010	-.00010	-.00050
26.186	-1.100	.00000	-.04360	.00740	-.04350	.00824	-5.27610	.00990	.00000	.00000	-.00040
26.123	.010	.00000	-.00980	.00780	-.00980	.00781	-1.24980	-.00090	-.00010	.00010	-.00040
26.196	1.180	.00000	.02660	.00740	.02650	.00794	3.33300	-.01240	-.00010	.00020	-.00050
26.146	2.280	.00000	.06060	.00630	.06030	.00869	6.94100	-.02290	.00000	.00030	-.00080
26.199	3.380	.00000	.09360	.00440	.09310	.00992	9.39240	-.03320	-.00010	.00020	-.00070
26.186	4.540	.00000	.12850	.00180	.12800	.01194	10.71700	-.04350	-.00010	.00010	-.00060
26.143	6.810	.00000	.20100	-.00490	.20010	.01890	10.58600	-.06480	-.00010	.00020	-.00050
26.120	8.990	.00000	.27430	-.01140	.27270	.03159	8.63270	-.08530	-.00040	-.00060	.00060
26.136	11.320	.00000	.36210	-.01580	.35810	.05555	6.44660	-.10920	-.00010	-.00150	.00190
26.136	13.730	.00000	.45300	-.01660	.44400	.09141	4.85720	-.13220	-.00130	-.00130	.00150
26.081	15.990	.01000	.54690	-.01960	.53110	.13179	4.02980	-.15670	-.00030	-.00030	-.00250
26.031	18.410	.03000	.66050	-.02280	.63390	.18701	3.39960	-.18970	.00040	-.00070	-.00600
26.054	20.970	.05000	.79890	-.02540	.75510	.26215	2.88030	-.23310	.00310	-.00220	-.00880
25.989	23.360	.07000	.91970	-.02850	.85570	.33842	2.52850	-.27060	.00400	-.00260	-.01280
25.920	25.800	.09000	1.04000	-.03340	.95090	.42260	2.25010	-.30360	.00550	-.00240	-.01820
25.867	28.250	.07000	1.15460	-.03910	1.03570	.51198	2.02290	-.33430	.00460	-.00320	-.01290
	GRADIENT	.00000	.03042	-.00067	.03030	.00039	2.99407	-.00952	-.00002	.00004	-.00004

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AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING V 60-75-0008

AMES 12-086 (LA65)

(JNC033) (18 APR 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = .0584 SQ. M. XMRP = .2344 M. XB
 LREF = .2587 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

T/C = .080 LESWP = 60.000
 FILSWP = 75.000 TESWP = .000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 114/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
13.035	-2.000	.00000	-.07660	.00750	-.07620	.01016	-7.50410	.0380	-.00030	.00020	.00270
13.039	-.980	.00000	-.04170	.00800	-.04160	.00872	-4.76790	.00630	-.00030	.00020	.00280
13.019	.070	.00000	-.00280	.00890	-.00280	.00884	-.31480	-.00240	-.00020	.00040	.00240
13.075	1.090	.00000	.03070	.00830	.03060	.00887	3.44440	-.01090	-.00020	.00040	.00210
13.058	2.120	.00000	.06890	.00700	.06860	.00955	7.18480	-.01910	-.00020	.00050	.00220
13.058	3.190	.00000	.10720	.00520	.10670	.01120	9.52810	-.02770	-.00030	.00040	.00280
13.065	4.200	.00000	.14180	.00290	.14120	.01326	10.65500	-.03570	-.00030	.00040	.00240
13.039	6.280	.00000	.21590	-.00320	.21490	.02045	10.50800	-.05220	-.00020	.00020	.00170
13.039	8.390	.00000	.29060	-.01120	.28910	.03130	9.23440	-.06860	-.00030	.00020	.00240
13.045	10.450	-.01000	.37560	-.01780	.37260	.05064	7.35890	-.08980	-.00050	.00080	.00190
13.026	12.590	.00000	.47040	-.02180	.46380	.08129	5.70660	-.10900	-.00100	-.00010	.00320
13.029	14.680	-.01000	.55800	-.02500	.54610	.11723	4.65820	-.12530	-.00090	.00000	.00430
13.026	16.790	-.01000	.64940	-.02850	.63000	.16029	3.93030	-.14210	-.00110	.00070	.00390
13.009	18.920	-.01000	.78390	-.03320	.75230	.22275	3.37730	-.17560	-.00270	.00050	.00330
13.045	21.050	-.01000	.93010	-.03900	.88210	.29772	2.96270	-.21450	-.00320	.00030	.00360
13.035	23.140	.00000	.95170	-.04460	.89270	.33300	2.68070	-.19700	.00330	.00080	.00090
13.029	25.230	-.01000	1.05060	-.05050	.97190	.40220	2.41640	-.21850	-.01780	-.00340	.01770
GRADIENT	.00000	.00000	.03535	-.00073	.03519	.00052	3.12396	-.00804	-.00000	.00004	-.00004

RUN NO. 113/ 0 RN/L = 5.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.571	-2.060	.00000	-.07870	.00700	-.07840	.00979	-8.00720	.01440	-.00020	.00000	.00180
19.545	-.990	.00000	-.04150	.00800	-.04140	.00873	-4.74100	.00630	-.00020	.00020	.00160
19.509	.090	.00000	-.00220	.00930	-.00230	.00831	-.27120	-.00320	-.00020	.00020	.00150
19.506	1.130	.00000	.03370	.00790	.03350	.00861	3.89560	-.01160	-.00030	.00020	.00220
19.515	2.160	.00000	.06950	.00680	.06920	.00944	7.32560	-.01970	-.00020	.00030	.00190
19.532	3.200	.00000	.10680	.00470	.10640	.01067	9.97100	-.02910	-.00030	.00030	.00150
19.515	4.260	.00000	.14390	.00220	.14340	.01293	11.08600	-.03620	-.00030	.00020	.00180
19.483	6.390	.00000	.21790	-.00440	.21700	.01983	10.94000	-.05300	-.00020	.00010	.00160
19.506	8.520	.00000	.29710	-.01380	.29580	.03037	9.73910	-.07030	-.00020	-.00040	.00220
19.499	10.650	.00000	.38170	-.02170	.37920	.04922	7.70320	-.08930	-.00050	.00000	.00180
19.525	12.810	-.01000	.47320	-.02390	.46690	.08162	5.71860	-.10650	-.00040	.00050	.00150
19.459	14.980	-.01000	.57260	-.02670	.56000	.12215	4.59470	-.12800	-.00100	-.00030	.00410
19.453	17.110	-.01000	.66400	-.03090	.64370	.16583	3.83140	-.14590	-.00070	.00030	.00260
19.443	19.280	-.01000	.78610	-.03680	.75420	.22482	3.35480	-.17520	-.00060	.00020	.00310
19.460	21.490	.00000	.92580	-.04430	.87770	.29792	2.94600	-.21040	-.00070	-.00040	.00350
19.466	23.690	-.01000	.99850	-.05090	.93480	.35455	2.63660	-.21650	-.00400	-.00120	.00690
19.479	25.750	-.01000	1.01500	-.05400	.93760	.39241	2.38940	-.20140	-.00280	-.00060	.00520
GRADIENT	.00000	.00000	.03523	-.00076	.03511	.00049	3.20757	-.00806	-.00002	.00003	.00001

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AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING V 60-75-0008

AMES 12-086 (LA65)

(JNC033) (18 APR 77)

REFERENCE DATA

SREF = .0584 SQ. M. XMRP = .2344 M. XB
 LREF = .2587 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 60.000
 FILSWP = 75.000 TESWP = .000
 BETA = .000 MACH = .300
 GRITNG = 120.000

RUN NO. 112/ 0 RN/L = 7.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
26.248	-2.080	.00000	-.07890	.00680	-.07860	.00965	-8.14180	.0510	-.00020	-.00010	.00140
26.218	-1.040	.00000	-.04410	.00800	-.04390	.00877	-5.00960	.00660	-.00020	-.00010	.00120
26.186	.050	.00000	-.00480	.00820	-.00490	.00815	-.59530	-.00280	-.00020	.00000	.00100
26.209	1.140	.00000	.03410	.00770	.03390	.00840	4.03600	-.01170	-.00030	.00010	.00080
26.176	2.210	.00000	.07110	.00620	.07090	.00893	7.93100	-.02010	-.00030	.00010	.00130
26.166	3.290	.00000	.10900	.00430	.10860	.01054	10.30500	-.02900	-.00030	.00010	.00110
26.169	4.360	.00000	.14550	.00180	.14500	.01288	11.25800	-.03740	-.00030	.00010	.00100
26.173	6.510	.00000	.22120	-.00560	.22040	.01956	11.27100	-.05420	-.00020	-.00010	.00090
26.176	8.670	.00000	.30220	-.01540	.30100	.03032	9.92850	-.07160	-.00030	-.00060	.00120
26.199	10.810	.00000	.38270	-.02410	.38050	.04811	7.90870	-.08390	-.00010	-.00080	.00150
26.212	13.040	.00000	.47840	-.02770	.47240	.08091	5.83770	-.10940	-.00040	.00020	.00120
26.196	15.250	-.01000	.58050	-.02990	.56790	.12385	4.58540	-.13030	.00070	.00110	-.00030
26.123	17.530	-.01000	.69300	-.03310	.67080	.17716	3.78640	-.15480	-.00400	.00060	.00140
26.113	19.800	-.01000	.83100	-.03900	.79510	.24487	3.24690	-.18960	-.00490	.00030	.00140
26.189	21.990	.00000	.95090	-.04550	.89880	.31377	2.86440	-.21790	-.00160	.00010	.00110
26.166	24.160	.00000	.99850	-.05190	.93220	.36138	2.57960	-.20980	-.00160	-.00010	.00170
26.189	26.290	-.01000	1.01200	-.05500	.93170	.39885	2.33600	-.19630	-.00140	-.00020	.00260
GRADIENT		.00000	.03501	-.00081	.03489	.00047	3.23078	-.00816	-.00002	.00004	-.00004

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING V 60-70-0008

AMES 12-086 (LA65)

(JNC034) (18 APR 77)

REFERENCE DATA

SREF = .0538 SQ. M. XMRP = .1916 M. XB
 LREF = .2258 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 60.000
 FILSWP = 70.000 TESWP = .000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 116/ 0 RN/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.604	-2.110	.00000	-.08990	.00680	-.08960	.01007	-8.89410	.0.280	-.00050	-.00020	.00270
19.611	-1.030	.00000	-.04900	.00790	-.04880	.00875	-5.57820	.00400	-.00040	-.00020	.00250
19.607	.070	.00000	-.00860	.00840	-.00860	.00835	-1.03040	-.00410	-.00050	-.00020	.00260
19.627	1.170	.00000	.03430	.00800	.03420	.00872	3.92470	-.01290	-.00040	-.00020	.00240
19.578	2.260	.00000	.07590	.00640	.07560	.00936	8.07270	-.02100	-.00030	.00000	.00210
19.571	3.340	.00000	.11660	.00430	.11610	.01112	10.44700	-.02820	-.00030	-.00010	.00200
19.561	4.370	.00000	.15530	.00170	.15470	.01351	11.44900	-.03520	-.00020	-.00010	.00180
19.519	6.550	.00000	.23900	-.00590	.23810	.02136	11.14300	-.05030	-.00010	.00000	.00160
19.538	8.730	.00000	.32880	-.01560	.32730	.03450	9.48760	-.06550	-.00010	-.00030	.00160
19.519	10.940	.00000	.41660	-.02610	.41390	.05345	7.74370	-.08100	.00020	.00000	.00120
19.542	13.150	.00000	.51000	-.03570	.50470	.08125	6.21230	-.09740	.00020	.00000	.00050
19.515	15.330	.00000	.60220	-.04210	.59190	.11860	4.99040	-.11250	.00070	.00070	-.00070
19.489	17.570	.00000	.70400	-.04370	.68430	.17086	4.00520	-.12600	-.00090	-.00070	.00270
19.538	19.790	-.01000	.79170	-.04420	.75990	.22646	3.35580	-.12970	-.00050	-.00100	.00550
19.463	21.970	.00000	.87640	-.04860	.83090	.28283	2.93780	-.13610	.00040	-.00010	.00220
19.473	24.190	-.01000	.95110	-.05200	.88890	.34228	2.59700	-.14670	-.00420	-.00050	.00520
19.535	26.310	-.01000	1.00450	-.05580	.92520	.39524	2.34080	-.15170	-.00580	-.00050	.00580
GRADIENT		.00000	.03791	-.00080	.03776	.00053	3.36940	-.00742	.00004	.00002	-.00014

RUN NO. 115/ 0 RN/L = 7.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
26.120	-2.180	.00000	-.09480	.00620	-.09450	.00979	-9.65350	.01330	-.00040	-.00020	.00190
26.140	-1.060	.00000	-.05400	.00780	-.05380	.00881	-6.10940	.00470	-.00040	-.00020	.00180
26.163	.050	.00000	-.01180	.00860	-.01180	.00857	-1.37650	-.00380	-.00040	-.00010	.00150
26.127	1.150	.00000	.03050	.00790	.03040	.00856	3.55060	-.01220	-.00030	-.00010	.00150
26.071	2.240	.00000	.07080	.00650	.07050	.00925	7.62030	-.02010	-.00020	-.00010	.00140
26.091	3.390	.00000	.11590	.00380	.11550	.01065	10.84800	-.02820	-.00030	-.00010	.00120
26.117	4.480	.00000	.15730	.00100	.15680	.01325	11.83100	-.03560	-.00020	-.00010	.00110
26.123	6.750	.00000	.24560	-.00780	.24480	.02109	11.60600	-.05110	-.00010	-.00020	.00080
26.136	8.940	.00000	.33050	-.01810	.32920	.03352	9.82190	-.06550	-.00020	-.00100	.00220
26.087	11.210	.00000	.42050	-.02940	.41820	.05291	7.90460	-.08130	-.00020	-.00080	.00190
26.064	13.470	.00000	.51400	-.03960	.50910	.08123	6.26770	-.09760	.00010	-.00040	.00060
26.038	15.770	.00000	.62330	-.04170	.61120	.12929	4.72700	-.11450	-.00020	.00090	-.00420
26.025	18.070	.00000	.71310	-.04060	.69060	.18263	3.78110	-.11940	-.00290	-.00080	.00170
26.081	20.450	.00000	.81010	-.04720	.77550	.23877	3.24790	-.13080	-.00180	-.00060	.00150
26.255	22.620	.00000	.88360	-.05160	.83550	.29217	2.85950	-.13770	.00160	.00000	-.00110
25.890	24.750	.00000	.94980	-.05560	.88590	.34717	2.55170	-.14600	.00180	.00090	-.00240
25.917	26.960	.00000	1.01620	-.05990	.93290	.40740	2.28990	-.15470	.00110	.00250	-.00490
GRADIENT		.00000	.03794	-.00083	.03781	.00047	3.45492	-.00736	.00003	.00002	-.00012

WING V 60-65-0008

AMES 12-086 (LA65)

(JNC035) (18 APR 77)

REFERENCE DATA

SREF = .0509 SQ. M. XMRP = .1645 M. XB
 LREF = .2067 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 60.000
 FILSWP = 65.000 TESWP = .000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 118/ 0 RN/L = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
19.558	-2.140	.00000	-.09940	.00600	-.09910	.00976	-10.15100	.00900	-.00010	-.00050	.00220
19.551	-1.080	.00000	-.05800	.00740	-.05780	.00845	-6.84310	.00170	-.00020	-.00040	.00210
19.483	.040	.00000	-.01100	.00780	-.01100	.00777	-1.42100	-.00710	-.00020	-.00040	.00220
19.492	1.150	.00000	.03270	.00740	.03260	.00810	4.02040	-.01490	-.00020	-.00040	.00200
19.512	2.230	.00000	.07660	.00580	.07630	.00878	8.69500	-.02220	-.00030	-.00030	.00190
19.489	3.320	.00000	.12150	.00350	.12110	.01058	11.45000	-.02930	-.00020	-.00040	.00200
19.446	4.440	.00000	.16350	.00010	.16300	.01277	12.76900	-.03420	-.00020	-.00030	.00170
19.466	6.670	.00000	.25280	-.00920	.25220	.02029	12.42800	-.04690	-.00020	-.00010	.00150
19.456	8.880	.00000	.34450	-.02220	.34380	.03125	11.00300	-.05950	-.00010	.00000	.00070
19.407	11.080	.00000	.43290	-.03550	.43170	.04832	8.93360	-.07000	-.00020	-.00020	.00110
19.450	13.280	.00000	.52290	-.04650	.51960	.07494	6.93380	-.08320	.00010	.00020	-.00010
19.433	15.510	.00000	.61640	-.05470	.60860	.11210	5.42870	-.09720	-.00040	.00010	-.00030
19.417	17.730	.00000	.71290	-.06040	.69740	.15962	4.36920	-.11320	.00030	-.00010	-.00010
19.401	19.990	-.01000	.79100	-.06500	.76550	.20932	3.65720	-.11850	-.00890	-.00120	.00660
19.453	22.130	-.01000	.86740	-.06460	.82780	.26698	3.10040	-.12680	-.00710	-.00020	.00690
19.414	24.340	-.01000	.95070	-.06390	.89250	.33362	2.67520	-.13860	-.00110	.00040	.00190
19.374	26.540	.00000	1.01760	-.06640	.94000	.39523	2.37840	-.14890	.00050	-.00030	.00100
GRADIENT		.00000	.04020	-.00090	.04007	.00047	3.75717	-.00673	-.00001	.00002	-.00007

RUN NO. 117/ 0 RN/L = 7.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
26.297	-2.260	.00000	-.10200	.00580	-.10170	.00986	-10.32200	.00820	-.00010	-.00030	.00100
26.212	-1.110	.00000	-.05950	.00750	-.05940	.00861	-6.90210	.00080	-.00010	-.00020	.00080
26.225	.020	.00000	-.01260	.00800	-.01260	.00797	-1.57910	-.00740	-.00010	-.00020	.00080
26.182	1.160	.00000	.03260	.00750	.03250	.00821	3.95740	-.01520	-.00010	-.00020	.00070
26.156	2.300	.00000	.07960	.00610	.07930	.00929	8.53550	-.02280	-.00010	-.00010	.00060
26.304	3.470	.00000	.12610	.00320	.12570	.01083	11.60500	-.02990	-.00010	.00000	.00050
26.215	4.550	.00000	.16760	-.00010	.16710	.01323	12.63000	-.03560	-.00010	-.00010	.00040
26.218	6.860	.00000	.26420	-.01080	.26360	.02082	12.66400	-.04940	-.00010	.00000	.00020
26.182	9.150	.00000	.35380	-.02430	.35320	.03220	10.96900	-.06030	-.00010	.00000	.00000
26.179	11.430	.00000	.44520	-.03780	.44380	.05117	8.67310	-.07200	-.00010	.00010	-.00020
26.963	13.750	.00000	.53930	-.04990	.53570	.07964	6.72710	-.08500	.00000	.00030	-.00090
26.123	16.010	.00000	.63320	-.05840	.62470	.11850	5.27190	-.09940	-.00020	.00040	-.00130
26.166	18.320	-.01000	.72050	-.06150	.70330	.16807	4.18460	-.10960	-.00560	-.00120	.00460
26.150	20.580	-.02000	.80040	-.06370	.77170	.22171	3.48080	-.11570	-.00320	.00100	.00710
26.995	22.820	.00000	.87360	-.06260	.82950	.28115	2.95050	-.12380	-.00100	.00010	.00070
26.123	25.120	.00000	.97610	-.06630	.91190	.35442	2.57310	-.14110	.00020	.00000	-.00020
26.133	27.380	.00000	1.05270	-.07020	.96700	.42186	2.29220	-.15260	.00100	-.00030	-.00030
GRADIENT		.00000	.03993	-.00088	.03980	.00050	3.64138	-.00653	-.00000	.00003	-.00008

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING I 25-25-0012

AMES 12-086 (LA65)

(JNC036) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .0722 M. XB
 LREF = .1591 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .120 LESWP = 25.000
 FILSWP = 25.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 138/ 0 RN/L = 1.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
6.477	-2.040	.00000	-.12264	.01184	-.12214	.01620	-7.56630	-.0882	-.00060	-.00096	.00255
6.460	-.990	.00000	-.07586	.01364	-.07562	.01495	-5.07330	-.00919	-.00075	-.00081	.00255
6.457	.040	.00000	-.02819	.01409	-.02820	.01407	-1.99450	-.00969	-.00060	-.00068	.00240
6.460	1.080	.00000	.01484	.01379	.01458	.01407	1.03900	-.00836	-.00060	-.00068	.00240
6.470	2.120	.00000	.05547	.01244	.05497	.01449	3.80060	-.00264	-.00075	-.00068	.00240
6.467	3.180	.00000	.10630	.00975	.10559	.01563	6.74760	-.00496	-.00060	-.00054	.00225
6.457	4.220	.00000	.15772	.00720	.15676	.01878	8.34060	-.00473	-.00075	-.00121	.00480
6.454	6.320	.00000	.25397	-.00255	.25271	.02542	9.95680	-.00010	-.00090	-.00102	.00525
6.450	8.430	.00000	.34903	-.01739	.34780	.03396	10.22500	.00824	-.00075	-.00078	.00450
6.450	10.540	.00000	.44963	-.03463	.44837	.04820	9.28930	.01220	-.00075	-.00040	.00375
6.454	12.590	.00000	.54258	-.05682	.54192	.06281	8.62530	.02104	-.00075	-.00065	.00435
6.454	14.730	.00000	.63913	-.08201	.63898	.08319	7.68040	.03089	-.00060	-.00095	.00435
6.437	16.790	.00000	.70825	-.05472	.69386	.15220	4.55770	-.00339	-.01094	-.00422	.01109
6.457	18.710	.00000	.66687	-.00645	.63369	.20781	3.04890	-.05961	-.00390	.00006	.00390
6.454	20.680	.00000	.69370	-.00225	.64980	.24288	2.67690	-.06659	.00105	-.00147	.00360
6.447	22.660	.01000	.67511	.01004	.61913	.26936	2.29810	-.06584	.02264	-.00300	-.01304
6.460	24.680	.01000	.65802	.01544	.59147	.28879	2.04870	-.09135	.01784	-.00078	-.01334
GRADIENT	.00000	.00000	.04415	-.00080	.04392	.00033	2.64212	.00095	-.00001	-.00001	.00021

RUN NO. 137/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
13.072	-2.140	.00000	-.12594	.01019	-.12547	.01489	-8.40900	-.01006	-.00060	-.00096	.00255
13.094	-1.070	.00000	-.07856	.01229	-.07832	.01376	-5.72030	-.00941	-.00060	-.00071	.00210
13.091	.010	.00000	-.03193	.01274	-.03194	.01274	-2.51850	-.00768	-.00060	-.00068	.00240
13.117	1.100	.00000	.01394	.01274	.01370	.01301	1.05160	-.00580	-.00060	-.00068	.00240
13.114	2.190	.00000	.06252	.01124	.06204	.01363	4.54490	-.00492	-.00060	-.00081	.00255
13.098	3.290	.00000	.11229	.00870	.11161	.01513	7.37480	-.00289	-.00060	-.00069	.00225
13.078	4.370	.00000	.16237	.00450	.16155	.01686	9.55290	-.00141	-.00060	-.00056	.00210
13.081	6.570	.00000	.26222	-.00575	.26127	.02330	11.24500	.00574	-.00075	-.00042	.00195
13.091	8.730	.00000	.36207	-.02189	.36120	.03332	10.85800	.01319	-.00060	-.00042	.00195
13.072	10.970	.00000	.46612	-.04213	.46562	.04734	9.83190	.02145	-.00060	-.00043	.00180
13.045	13.150	.00000	.56867	-.06627	.56883	.06484	8.75630	.02911	-.00060	-.00043	.00180
13.042	15.290	.00000	.67316	-.09460	.67428	.08626	7.81080	.03837	-.00060	-.00057	.00195
13.035	17.470	.00000	.77316	-.11109	.77085	.12614	6.11660	.03675	-.00345	-.00642	.01334
13.055	19.630	-.01000	.85937	-.12309	.85078	.17277	4.82470	.02518	-.01184	-.01029	.02339
13.029	21.390	.01000	.77211	-.03538	.73183	.24866	2.94180	-.05810	.01484	-.00164	-.00150
13.052	23.400	.01000	.74708	-.01244	.69058	.28528	2.42090	-.07264	.00900	-.00127	-.00240
13.039	25.370	.03000	.74108	.00120	.66910	.31861	2.10040	-.08866	.02399	-.00035	-.02009
GRADIENT	.00000	.00000	.04407	-.00085	.04387	.00031	2.85363	.00137	.00000	.00004	-.00003

WING I 25-25-0012

AMES 12-086 (LA65)

(JNC036) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .0722 M. XB
 LREF = .1591 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .120 LESWP = 25.000
 FILSWP = 25.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 136/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
19.716	-2.260	.00000	-.12984	.00960	-.12936	.01471	-8.78180	-.00081	-.00045	-.00043	.00180
19.709	-1.150	.00000	-.08141	.01124	-.08117	.01288	-6.29040	-.00996	-.00045	-.00031	.00150
19.696	.010	.00000	-.03163	.01214	-.03164	.01214	-2.60810	-.00763	-.00030	-.00030	.00165
19.679	1.150	.00000	.01754	.01154	.01731	.01189	1.45300	-.00571	-.00045	-.00031	.00150
19.634	2.250	.00000	.06567	.00990	.06523	.01247	5.21860	-.00491	-.00045	-.00031	.00150
19.653	3.400	.00000	.11934	.00705	.11871	.01411	8.41550	-.00244	-.00045	-.00018	.00135
19.614	4.510	.00000	.16942	.00315	.16854	.01646	10.25800	.00025	-.00045	-.00018	.00135
19.594	6.810	.00000	.27061	-.00855	.26972	.02360	11.42200	.00796	-.00045	-.00019	.00120
19.614	9.100	.00000	.38096	-.02579	.38024	.03479	10.93800	.01532	-.00045	-.00005	.00105
19.597	11.390	.00000	.48801	-.04723	.48772	.05008	9.74880	.02416	-.00060	-.00019	.00120
19.594	13.750	.00000	.60150	-.07436	.60194	.07074	8.51110	.03242	-.00060	-.00018	.00135
19.571	15.970	.00000	.70360	-.10420	.70511	.09341	7.54410	.04182	-.00060	-.00019	.00120
19.545	18.320	.00000	.81349	-.14018	.81632	.12263	6.65870	.05091	-.00045	-.00034	.00120
19.525	20.600	.00000	.91439	-.17616	.91791	.15682	5.85430	.05947	.00000	-.00049	.00120
19.637	22.510	.00000	.93613	-.11124	.90740	.25562	3.54860	-.01035	-.00090	-.00050	.00270
19.591	24.320	.01000	.87991	-.07406	.83233	.29488	2.82200	-.05154	.01619	.00150	-.00810
19.597	26.160	.01000	.82969	-.04318	.76373	.32704	2.33530	-.07459	.00750	.00132	-.00840
GRADIENT		.00000	.04412	-.00095	.04394	.00025	2.98188	.00161	-.00000	.00003	-.00006

RUN NO. 135/ 0 RN/L = 7.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
26.261	-2.450	.00000	-.13658	.00780	-.13612	.01363	-10.02600	-.01181	-.00030	-.00014	.00015
26.248	-1.280	.00000	-.08636	.00960	-.08612	.01152	-7.42110	-.01091	-.00015	-.00014	.00015
26.222	-.020	.00000	-.03163	.01034	-.03163	.01036	-3.05820	-.00884	-.00015	-.00012	.00030
26.196	1.110	.00000	.01574	.00990	.01555	.01020	1.51810	-.00667	-.00030	.00000	.00000
26.212	2.320	.00000	.07061	.00840	.07022	.01125	6.28160	-.00578	-.00015	.00001	.00015
26.117	3.530	.00000	.12324	.00525	.12268	.01283	9.55060	-.00199	-.00030	.00014	-.00015
26.159	4.660	.00000	.17361	.00120	.17294	.01530	11.35600	.00137	-.00030	.00000	.00000
26.120	7.080	.00000	.26521	-.01199	.26550	.02337	12.19800	.00555	-.00030	-.00023	.00075
26.140	9.490	.00000	.40060	-.03058	.40016	.03588	11.16200	.01638	-.00030	-.00009	.00060
26.186	11.890	.00000	.51304	-.05442	.51325	.05245	9.79130	.02555	-.00045	-.00009	.00060
26.120	14.290	.00000	.62549	-.08321	.62667	.07376	8.49450	.03554	-.00075	-.00011	.00045
26.087	16.770	.00000	.74153	-.11814	.74408	.10084	7.37890	.04551	-.00075	-.00011	.00045
26.209	19.090	.00000	.84543	-.15412	.84934	.13085	6.49260	.05586	-.00060	-.00035	.00105
26.130	21.540	.00000	.95592	-.19670	.96138	.16600	5.72050	.06658	-.00015	-.00014	.00015
26.159	23.320	-.02000	.95092	-.12384	.92217	.26268	3.51000	-.01297	-.01379	.00134	.00315
26.117	25.310	-.03000	.95127	-.11244	.90803	.30503	2.97820	-.03139	-.02144	.00332	.00510
26.051	26.890	.01000	.84993	-.05972	.78956	.32223	2.45030	-.05097	.01004	.00362	-.01109
GRADIENT		.00000	.04362	-.00091	.04346	.00025	3.22843	.00181	-.00001	.00003	-.00004

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WING 1 25-80-0012

AMES 12-086 (LA65)

(JNC037) (18 APR 77)

REFERENCE DATA

SREF = .0734 SQ. M. XMRP = .3152 M. XB
 LREF = .3220 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .120 LESWP = 25.000
 FILSWP = 80.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 125/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
13.065	-2.060	.00000	-.07677	.00734	-.07646	.01009	-7.59520	.0633	.00000	-.00004	.00040
13.127	-1.050	.00000	-.04722	.00807	-.04707	.00893	-5.26380	.00932	.00000	.00010	.00033
13.131	.030	.00000	-.01581	.00847	-.01581	.00846	-1.87620	.00260	-.00007	.00002	.00047
13.104	1.140	.00000	.01888	.00800	.01871	.00838	2.23830	-.00510	-.00007	.00010	.00033
13.104	2.170	.00000	.04876	.00700	.04846	.00894	5.49520	-.01177	-.00007	.00011	.00027
13.088	3.290	.00000	.08317	.00574	.08271	.01050	7.87830	-.01895	-.00007	.00025	.00020
13.088	4.350	.00000	.11859	.00340	.11799	.01239	9.53720	-.02684	-.00007	.00011	.00027
13.068	6.530	.00000	.18536	-.00260	.18445	.01850	9.98200	-.04149	-.00007	.00028	-.00013
13.062	8.670	.00000	.26113	-.01081	.25978	.02858	9.05930	-.05891	.00000	.00064	-.00147
13.081	10.870	.00000	.34317	-.02074	.34093	.04434	7.68330	-.07643	.00013	.00058	-.00047
13.098	13.010	.00000	.42595	-.02528	.42070	.07126	5.90280	-.09662	.00120	.00446	-.00567
13.117	15.210	.01000	.51899	-.01367	.50440	.12297	4.10120	-.12611	.00187	.00048	-.00374
13.088	17.360	.01000	.59917	-.01481	.57629	.16464	3.50110	-.14750	.00193	-.00129	-.00414
13.085	19.540	.02000	.68721	-.01968	.65421	.21130	3.09610	-.16993	.00320	-.00111	-.00747
13.049	21.700	.03000	.76218	-.02281	.71650	.26062	2.74960	-.18736	.00427	-.00059	-.01167
13.039	23.870	.04000	.81547	-.02481	.75598	.30677	2.46470	-.19913	.00707	-.00220	-.01301
13.012	26.010	.04000	.86857	-.03075	.79408	.35326	2.24740	-.20753	.00654	-.00231	-.01474
GRADIENT		.00000	.03033	-.00050	.03019	.00035	2.83042	-.00667	-.00001	.00003	-.00003

RUN NO. 124/ 0 RN/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.565	-2.160	.00000	-.07851	.00700	-.07819	.00996	-7.84970	.01639	.00000	.00004	.00033
19.581	-1.090	.00000	-.04809	.00900	-.04793	.00892	-5.36890	.00983	.00000	.00004	.00027
19.565	.010	.00000	-.01567	.00834	-.01569	.00833	-1.87830	.00265	.00000	.00017	.00033
19.551	1.180	.00000	.01854	.00807	.01837	.00845	2.16700	-.00477	.00000	.00018	.00020
19.499	2.260	.00000	.05143	.00714	.05110	.00916	5.58550	-.01223	.00000	.00025	.00013
19.532	3.400	.00000	.08744	.00547	.08597	.01065	8.18550	-.02001	.00000	.00027	.00000
19.532	4.490	.00000	.12133	.00313	.12071	.01262	9.55690	-.02720	.00000	.00027	-.00007
19.515	6.740	.00000	.19203	-.00367	.19113	.01889	10.11300	-.04272	-.00007	.00036	-.00027
19.515	8.950	.00000	.27327	-.01247	.27188	.03019	9.00980	-.05148	-.00013	.00058	-.00047
19.558	11.230	.00900	.35911	-.02308	.35673	.04730	7.54030	-.07939	.00007	.00061	-.00080
19.545	13.520	.00000	.44289	-.03428	.43963	.07021	6.24950	-.09921	.00093	.00132	-.00273
19.539	15.830	.01000	.54014	-.03268	.52852	.11570	4.57040	-.12545	.00440	.00745	-.01347
19.506	18.090	.03000	.62718	-.02628	.60434	.16977	3.55970	-.15021	.00200	.00010	-.00827
19.479	20.340	.04000	.71569	-.02581	.68004	.22456	3.02830	-.17422	.00280	-.00051	-.01041
19.453	22.580	.05000	.78919	-.02895	.73381	.27630	2.67830	-.19178	.00427	-.00035	-.01427
19.476	24.820	.06000	.85369	-.03322	.78878	.32821	2.40330	-.20519	.00600	-.00078	-.01681
19.476	27.090	.07000	.91492	-.03995	.83274	.38108	2.18470	-.21466	.00760	-.00229	-.01708
GRADIENT		.00000	.03007	-.00057	.02993	.00039	2.78582	-.00659	.00000	.00004	-.00006

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING I 25-80-0012

AMES 12-086 (LA65)

(JNC037) (18 APR 77)

REFERENCE DATA

SREF = .0734 SQ. M. XMRP = .3152 M. XB
 LREF = .3220 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .120 LESWP = 25.000
 FILSWP = 80.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 123/ 0 RN/L = 7.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
26.287	-2.270	.00000	-.08237	.00687	-.08204	.01013	-8.11450	.0699	.00007	-.00001	.00013
26.268	-1.130	.00000	-.04909	.00800	-.04892	.00897	-5.44780	.00970	.00000	-.00002	.00020
26.232	.010	.00000	-.01627	.00847	-.01628	.00847	-1.92190	.00244	.00000	.00011	.00027
26.156	1.170	.00000	.01834	.00814	.01817	.00851	2.13410	-.00501	.00000	.00012	.00013
26.130	2.370	.00000	.05583	.00700	.05549	.00931	5.95270	-.01337	.00000	.00013	.00007
26.091	3.520	.00000	.09038	.00514	.08989	.01068	8.42830	-.02072	.00000	.00019	.00007
26.061	4.590	.00000	.12319	.00267	.12259	.01252	9.80170	-.02748	-.00007	.00028	-.00013
26.084	6.970	.00000	.20143	-.00474	.20052	.01974	10.14600	-.04523	-.00007	.00043	-.00033
25.995	9.310	.00000	.28888	-.01454	.28742	.03238	8.86690	-.06505	-.00020	.00052	-.00060
26.045	11.690	.00000	.37432	-.02568	.37176	.05070	7.32580	-.08326	.00007	.00066	-.00140
26.031	14.060	.01000	.46216	-.03809	.45757	.07533	6.07260	-.10226	.00087	.00093	-.00360
26.005	16.450	.02000	.55474	-.04396	.54448	.11494	4.73700	-.12490	.00354	.00545	-.01207
25.999	18.830	.04000	.65639	-.04696	.63642	.16742	3.79990	-.15257	.00614	.00736	-.01908
25.933	21.200	.05000	.74631	-.03862	.70976	.23388	3.03500	-.17961	.00414	.00294	-.01667
25.943	23.570	.07000	.82408	-.03882	.77035	.29394	2.62320	-.19897	.00627	.00044	-.01701
25.986	25.910	.08000	.90112	-.04349	.82954	.35463	2.33890	-.21542	.00794	-.00090	-.01774
25.999	28.170	.09000	.95588	-.04869	.86564	.40834	2.12000	-.22318	.00794	-.00182	-.01861
GRADIENT		.00000	.03002	-.00061	.02988	.00035	2.77521	-.00652	-.00001	.00004	-.00004

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS 11

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WING 1 25-60-0012

AMES 12-086 (LA65)

(JNC038) (18 APR 77)

REFERENCE DATA

SREF = .0549 SQ. M. XMRP = .1366 M. XB
 LREF = .1936 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .120 LESWP = 25.000
 FILSWP = 60.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 134/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
13.072	-2.040	.00000	-.09140	.00850	-.09100	.01178	-7.72280	.00800	-.00040	-.00020	.00220
13.098	-1.010	.00000	-.05120	.00900	-.05100	.00986	-5.17630	-.00100	-.00040	.00000	.00210
13.094	.060	.00000	-.00660	.00950	-.00660	.00952	-.69240	-.00320	-.00040	.00020	.00190
13.094	1.170	.00000	.03550	.00310	.03530	.00980	3.60300	-.00330	-.00050	.00010	.00230
13.058	2.180	.00000	.07930	.00760	.07900	.01066	7.41320	-.00460	-.00050	.00020	.00220
13.068	3.290	.00000	.12490	.00550	.12440	.01271	9.78380	-.00620	-.00060	.00020	.00230
13.072	4.330	.00000	.16570	.00290	.16500	.01542	10.70400	-.00670	-.00060	.00020	.00210
13.104	6.490	.00000	.25340	-.00630	.25250	.02232	11.31100	-.00750	-.00070	.00000	.00350
13.068	8.590	.00000	.34450	-.01910	.34340	.03254	10.55500	-.00910	-.00070	.00010	.00290
13.072	10.750	.00000	.44400	-.03640	.44300	.04705	9.41590	-.01230	-.00070	.00020	.00260
13.081	12.930	.00000	.54370	-.05680	.54260	.06631	8.18240	-.01510	-.00060	.00020	.00230
13.065	15.000	-.01000	.62470	-.05310	.61710	.11030	5.59530	-.03120	.00720	.00770	-.01010
13.062	17.080	-.01000	.69250	-.05490	.67810	.15091	4.49350	-.04940	.01620	.00990	-.01790
13.026	18.990	-.01000	.68400	-.00290	.64770	.21985	2.94620	-.09450	-.00700	.00170	.00880
13.075	21.050	-.02000	.69200	-.00130	.64630	.24725	2.61400	-.09920	-.00850	.00160	.01270
13.055	23.060	-.02000	.72340	-.00450	.66740	.27923	2.39010	-.10320	-.00700	.00070	.01330
13.042	25.110	-.01000	.76630	-.00930	.69790	.31681	2.20280	-.10660	-.00630	-.00010	.01510
GRADIENT		.00000	.04054	-.00086	.04037	.00060	3.12859	-.00115	-.00004	.00005	.00001

RUN NO. 133/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
19.716	-2.080	.00000	-.09530	.00790	-.09490	.01135	-8.36000	.00120	-.00020	.00010	.00050
19.660	-1.040	.00000	-.05410	.00900	-.05390	.01000	-5.39330	-.00040	-.00020	.00020	.00050
19.653	.060	.00000	-.00870	.00960	-.00870	.00961	-.91050	-.00260	-.00040	.00010	.00160
19.607	1.160	.00000	.03160	.00890	.03140	.00949	3.31280	-.00270	-.00050	.00010	.00150
19.588	2.230	.00000	.07480	.00760	.07440	.01053	7.07160	-.00390	-.00050	.00020	.00130
19.571	3.320	.00000	.12100	.00540	.12050	.01239	9.72420	-.00470	-.00060	.00010	.00130
19.571	4.420	.00000	.16500	.00230	.16440	.01497	10.97900	-.00530	-.00070	.00010	.00210
19.696	6.630	.00000	.26100	-.00750	.26010	.02270	11.45900	-.00830	-.00070	.00010	.00180
19.611	8.850	.00000	.35870	-.02140	.35770	.03403	10.51100	-.01100	-.00080	.00000	.00260
19.630	11.050	.00000	.45600	-.03920	.45510	.04897	9.29350	-.01340	-.00080	.00000	.00210
19.574	13.270	.00000	.55220	-.06100	.55140	.06736	8.18580	-.01420	-.00070	.00010	.00200
19.627	15.420	-.02000	.63530	-.05920	.62810	.11192	5.61250	-.02960	.00730	.00810	-.01180
19.574	17.530	-.01000	.69390	-.06120	.68010	.15058	4.51640	-.04790	.01860	.01080	-.02180
19.551	19.440	-.01000	.69700	-.00810	.65990	.22425	2.94290	-.09540	-.00100	.00240	.00110
19.509	21.420	-.01000	.70270	-.00780	.65700	.24937	2.63470	-.10080	-.00190	.00160	.00500
19.627	23.490	-.02000	.72070	-.00920	.66470	.27879	2.38420	-.10200	-.00450	.00070	.01140
19.571	25.600	-.02000	.76170	-.01530	.69360	.31525	2.20010	-.10610	-.00560	-.00010	.01410
GRADIENT		.00000	.03997	-.00086	.03981	.00055	3.16604	-.00097	-.00008	-.00000	.00020

WING I 25-60-0012

AMES 12-086 (LA65)

(JNC038) (18 APR 77)

REFERENCE DATA

SREF = .0549 SQ. M. XMRP = .1366 M. XB
 LREF = .1936 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .120 LESWP = 25.000
 FILSWP = 60.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 132/ 0 RN/L = 7.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
26.300	-2.210	.00000	-.10050	.00730	-.10010	.01118	-8.95760	.0110	-.00030	.00000	.00030
26.123	-1.080	.00000	-.05700	.00880	-.05690	.00990	-5.74220	-.00060	-.00040	-.00010	.00080
26.274	.040	.00000	-.01100	.00940	-.01100	.00936	-1.17610	-.00210	-.00030	-.00010	.00110
26.251	1.170	.00000	.03270	.00880	.03260	.00951	3.42200	-.00350	-.00050	.00000	.00120
26.235	2.370	.00000	.08180	.00720	.08140	.01059	7.68940	-.00440	-.00050	.00000	.00100
26.110	3.440	.00000	.12380	.00480	.12320	.01220	10.10500	-.00480	-.00050	-.00010	.00150
26.140	4.540	.00000	.17000	.00140	.16930	.01484	11.40600	-.00540	-.00060	-.00010	.00110
26.107	6.860	.00000	.26840	-.00930	.26760	.02277	11.74900	-.00670	-.00070	.00000	.00110
26.100	9.080	.00000	.36510	-.02350	.36420	.03443	10.57700	-.00900	-.00070	.00000	.00090
26.084	11.380	.00000	.46770	-.04280	.46690	.05040	9.26490	-.01130	-.00080	.00000	.00130
26.045	13.650	.00000	.55540	-.06490	.55460	.07043	8.01920	-.01280	-.00070	.00000	.00100
26.041	15.910	-.01000	.65150	-.08320	.65900	.10128	6.50650	-.01910	.00140	.00360	-.00400
26.071	18.120	-.02000	.74980	-.09290	.74140	.14496	5.11480	-.03380	.00870	.00970	-.01640
26.028	20.130	.00000	.77030	-.05940	.74370	.20931	3.55310	-.06720	.01660	.00390	-.01190
25.979	22.130	.01000	.79170	-.04620	.75090	.25543	2.93940	-.08350	.01960	.00230	-.00920
26.068	24.180	.00000	.81120	-.03570	.75460	.29973	2.51750	-.10490	.01790	.00300	-.00730
26.031	26.250	-.01000	.85140	-.04020	.78140	.34043	2.29550	-.10930	.01060	.00270	.00060
	GRADIENT	.00000	.04003	-.00088	.03987	.00053	3.21841	-.00096	-.00004	-.00001	.00012

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

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WING II 35-35-WEDGE

AMES 12-086 (LA65)

(JNC039) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .0878 M. XB
 LREF = .1649 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 35.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 119/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
13.091	-2.100	.00000	-.09940	.01070	-.09900	.01436	-6.89350	-.0860	-.00040	-.00030	.00200
13.072	-1.000	.00000	-.05910	.01140	-.05890	.01246	-4.72570	-.00660	-.00040	-.00020	.00200
13.108	.130	.00000	-.01850	.01190	-.01850	.01183	-1.56340	-.00420	-.00050	-.00020	.00220
13.026	1.140	.00000	.02060	.01140	.02040	.01183	1.72640	-.00110	-.00040	-.00030	.00270
13.078	2.180	.00000	.05920	.00990	.05880	.01216	4.83810	.00080	-.00050	-.00020	.00200
13.081	3.230	.00000	.09540	.00810	.09480	.01346	7.03830	.00460	-.00050	-.00030	.00230
13.068	4.320	.00000	.14540	.00510	.14460	.01604	9.01860	.00520	-.00040	-.00020	.00190
13.065	6.510	.00000	.24470	-.00250	.24340	.02529	9.62520	.00320	-.00050	-.00020	.00200
13.058	8.640	.00000	.33910	-.01070	.33690	.04042	8.33470	.01240	-.00110	-.00020	.00180
13.049	10.840	.00000	.43510	-.01550	.43020	.06663	6.45680	.01270	-.00030	.00010	.00170
13.058	12.980	.00000	.50480	-.01410	.49500	.09961	4.96960	.01170	.00120	.00020	.00170
13.068	14.960	.00000	.52070	-.00140	.50340	.13311	3.78220	.00360	.00040	.00020	.00150
13.055	17.030	.00000	.56390	.00300	.53830	.16797	3.20480	-.00290	-.00090	.00020	.00130
13.055	19.070	.00000	.56130	.01380	.52590	.19646	2.67710	-.01090	-.00140	-.00040	.00330
13.045	21.010	.00000	.55120	.02420	.50580	.22024	2.29680	-.02040	-.00120	-.00010	.00330
13.026	23.050	.00000	.60440	.02520	.54630	.25980	2.10290	-.03190	.00050	-.00030	.00210
13.026	25.150	.00000	.64530	.02200	.57480	.29413	1.95410	-.03480	.00120	-.00020	.00070
GRADIENT		.00000	.03766	-.00085	.03747	.00024	2.60769	.00231	-.00001	.00000	.00000

REPRODUCIBILITY OF THE
 ORIGINAL PAGE IS POOR

WING 11 35-80-WEDGE

AMES 12-086 (LA65)

(JNC040) (18 APR 77)

REFERENCE DATA

SREF = .0723 SQ. M. XMRP = .3162 M. XB
 LREF = .3215 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 80.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 120/ 0 RN/L = 3.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
13.022	-2.020	.00000	-.07040	.01000	-.07000	.01252	-5.59150	.0670	.00000	.00000	.00020
13.019	-.990	.00000	-.04020	.01050	-.04000	.01116	-3.58820	.01010	.00000	.00000	.00030
13.012	.080	.00000	-.01100	.01050	-.01100	.01044	-1.05140	.00350	.00000	.00030	.00030
13.006	1.130	.00000	.01360	.01030	.01340	.01059	1.26240	-.00070	.00000	.00020	.00040
12.999	2.190	.00000	.04590	.00990	.04550	.01162	3.91060	-.00810	-.00010	.00030	.00030
12.983	3.250	.00000	.08220	.00910	.08160	.01374	5.93560	-.01720	-.00020	.00030	.00020
12.983	4.350	.00000	.12360	.00750	.12260	.01685	7.27770	-.02710	-.00030	.00040	-.00020
12.973	6.560	.00000	.20010	.00430	.19830	.02711	7.31540	-.04270	-.00040	.00050	-.00010
12.950	8.700	.00000	.28270	.00080	.27930	.04353	6.41790	-.05910	-.00050	.00050	-.00040
12.937	10.930	.00000	.38070	-.00140	.37400	.07084	5.27960	-.08090	.00080	.00030	-.00030
12.934	13.100	.00000	.47840	-.00230	.46650	.10620	4.39300	-.10360	-.00050	.00040	-.00090
12.921	15.370	.00000	.58420	-.00300	.56410	.15192	3.71340	-.12750	-.00060	.00020	-.00130
12.917	17.560	.00000	.69710	-.00530	.66620	.20524	3.24600	-.15440	.00080	-.00030	-.00150
12.888	19.800	.01000	.81730	-.00950	.77220	.26789	2.88250	-.18170	.00130	-.00110	-.00230
12.868	22.060	.01000	.94810	-.01470	.88420	.34242	2.58230	-.21230	.00080	-.00140	-.00480
12.832	24.310	.02000	1.07140	-.01990	.98460	.42289	2.32820	-.23930	.00130	-.00180	-.00850
12.871	26.600	.03000	1.19780	-.02510	1.08220	.51391	2.10590	-.26750	.00130	-.00070	-.01150
	GRADIENT	.00000	.02977	-.00037	.02956	.00066	2.10742	-.00666	-.00005	.00006	-.00005

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS 11

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WING V 60-60-WEDGE

AMES 12-086 (LA65)

(JNC041) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .1456 M. XB
 LREF = .1942 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 60.000
 FILSWP = 60.000 TESWP = .000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 121/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
13.176	-2.020	.00000	-.09630	.01000	-.09590	.01339	-7.15930	.0030	-.00010	.00050	.00040
13.173	-1.000	.00000	-.05740	.01100	-.05720	.01202	-4.75850	.00550	-.00020	.00050	.00090
13.150	.050	.00000	-.01810	.01110	-.01810	.01106	-1.63630	.00070	-.00030	.00060	.00070
13.154	1.090	.00000	.01800	.01060	.01780	.01096	1.62030	-.00360	-.00030	.00060	.00080
13.160	2.150	.00000	.06230	.00970	.06190	.01206	5.13300	-.00890	-.00020	.00060	.00070
13.134	3.190	.00000	.10190	.00770	.10140	.01336	7.58580	-.01290	-.00020	.00060	.00080
13.137	4.250	.00000	.15030	.00580	.14940	.01697	8.80360	-.01840	-.00030	.00050	.00120
13.127	6.420	.00000	.24870	.00050	.24710	.02826	8.74410	-.03030	-.00030	.00060	.00080
13.134	8.470	.00000	.34620	-.00400	.34300	.04696	7.30390	-.04180	-.00050	.00060	.00040
13.108	10.590	.00000	.45720	-.01030	.45130	.07391	6.10630	-.05520	-.00100	.00030	.00300
13.124	12.710	.00000	.57040	-.01810	.56040	.10787	5.19530	-.06610	-.00080	.00040	.00260
13.091	14.770	.00000	.60690	-.01740	.59120	.13795	4.28600	-.05130	.00000	.00030	.00290
13.072	16.880	.00000	.70280	-.02250	.67900	.18253	3.72030	-.05950	-.00060	.00040	.00220
13.081	18.980	.00000	.79540	-.02720	.76100	.23294	3.26710	-.06700	-.00160	.00010	.00390
13.072	21.100	.00000	.88000	-.03120	.83220	.28758	2.89390	-.07330	-.00120	.00010	.00420
13.072	23.220	-.01000	.96190	-.03390	.89740	.34806	2.57820	-.08160	-.00220	.00000	.00570
13.167	25.310	-.01000	1.03660	-.03490	.95200	.41150	2.31360	-.09200	-.00170	.00010	.00490
	GRADIENT	.00000	.03888	-.00071	.03869	.00050	2.70865	-.00452	-.00002	.00001	.00008

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS 11

PAGE 70

WING V 60-80-WEDGE

AMES 12-086 (LA65)

(JNC042) (18 APR 77)

REFERENCE DATA

SREF = .0675 SQ. M. XMRP = .3150 M. XB
 LREF = .3284 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 60.000
 FILSWP = 80.000 TESWP = .000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 122/ 0 RN/L = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
13.052	-2.030	.00000	-.07650	.00980	-.07610	.01246	-6.11020	.0290	-.00030	.00000	-.00080
13.062	-1.040	.00000	-.04740	.01020	-.04720	.01107	-4.26170	.01460	-.00030	.00000	-.00040
13.039	.030	.00000	-.01810	.01080	-.01810	.01082	-1.67330	.00580	-.00030	.00020	-.00020
13.042	1.090	.00000	.00950	.01020	.00930	.01039	.89590	-.00240	-.00030	.00010	-.00010
13.016	2.150	.00000	.04310	.00940	.04270	.01099	3.88470	-.01220	-.00030	.00020	-.00020
12.976	3.150	.00000	.07600	.00860	.07540	.01278	5.89970	-.02230	-.00040	-.00030	.00110
12.996	4.290	.00000	.11550	.00690	.11470	.01558	7.36310	-.03310	-.00040	-.00020	.00090
12.986	6.500	.00000	.18940	.00460	.18770	.02598	7.22420	-.05210	-.00040	.00000	.00070
12.989	8.590	.00000	.27050	.00190	.26720	.04233	6.31250	-.07300	-.00070	.00000	.00040
13.003	10.760	.00000	.36180	-.00040	.35550	.06718	5.29100	-.09540	-.00050	.00010	.00020
12.996	12.960	.00000	.45430	-.00190	.44320	.10006	4.42900	-.11560	.00020	.00050	-.00020
12.983	15.130	.00000	.54960	-.00150	.53090	.14195	3.74000	-.13700	.00000	.00030	-.00050
12.967	17.320	.00000	.66520	-.00250	.63580	.19569	3.24890	-.16820	.00060	.00010	-.00060
12.953	19.560	.00000	.77550	-.00540	.73250	.25454	2.87790	-.19580	.00090	.00000	-.00090
12.921	21.760	.00000	.88550	-.00920	.82580	.31975	2.58260	-.22030	.00170	-.00070	-.00120
12.904	24.000	.01000	.99810	-.01320	.91720	.39384	2.32880	-.24550	.00280	-.00070	-.00480
12.891	26.170	.02000	1.10230	-.01690	.99670	.47092	2.11660	-.26680	.00340	-.00050	-.00890
	GRADIENT	.00000	.03002	-.00045	.02982	.00044	2.24951	-.00882	-.00002	-.00004	.00027

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

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AMES 12-086 (LA65)

(JNC043) (18 APR 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = .0490 SQ. M. XMRP = .0722 M. XB
 LREF = .1591 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

T/C = .120 LESWP = 25.000
 FILSWP = 25.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = .000

RUN NO. 144/ 0 RN/L = 1.87 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
6.195	-2.010	.00000	-.11694	.00735	-.11661	.01144	-10.14000	-.0741	-.00015	-.00004	.00285
6.178	-1.020	.00000	-.07616	.00825	-.07600	.00960	-7.88030	-.00561	-.00015	.00041	.00285
6.162	.080	.00000	-.02999	.00810	-.03000	.00805	-3.74120	-.00336	-.00030	-.00013	.00345
6.158	1.090	.00000	.00750	.00750	.00735	.00764	.95510	.00175	-.00030	-.00038	.00405
6.159	2.090	.00000	.04843	.00600	.04817	.00776	6.18050	.00328	-.00030	-.00030	.00330
6.149	3.140	.00000	.09550	.00360	.09516	.00882	10.70800	.00479	-.00030	-.00016	.00315
6.149	4.150	.00000	.14483	.00090	.14438	.01138	12.73600	.00491	-.00030	-.00016	.00315
6.155	6.310	.00000	.24048	-.00900	.24001	.01749	13.72700	.01185	-.00015	-.00017	.00300
6.149	8.380	.00000	.34843	-.02264	.34801	.02838	12.28300	.01268	-.00030	-.00034	.00285
6.149	10.490	.00000	.45352	-.04108	.45342	.04218	10.73300	.01720	-.00030	-.00035	.00270
6.142	12.560	.00000	.54603	-.06267	.54659	.05757	9.49390	.02717	-.00030	-.00050	.00270
6.145	14.630	.00000	.63463	-.08771	.63621	.07543	8.42650	.03952	-.00030	-.00036	.00255
6.132	16.680	.00000	.70255	-.05907	.68994	.14506	4.75910	.00582	-.00870	-.00421	.01124
6.132	18.670	.00000	.65592	-.00755	.62385	.20273	3.07780	-.05657	-.00105	-.00096	.00585
6.122	20.630	.00000	.67226	-.00090	.62947	.23602	2.66670	-.06615	-.00120	-.00058	.00510
6.126	22.680	.00000	.68471	.00315	.63055	.26692	2.36130	-.07316	.00255	-.00099	.00060
6.113	24.650	.00000	.65982	.00885	.59600	.28323	2.10470	-.07584	.00225	-.00022	-.00075
GRADIENT	.00000	.00000	.04189	-.00106	.04177	-.00007	4.01674	.00224	-.00003	-.00006	.00005

RUN NO. 143/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
13.062	-2.130	.00000	-.12159	.00585	-.12129	.01036	-11.66100	-.00922	-.00015	-.00013	.00180
13.098	-1.080	.00000	-.07916	.00720	-.07901	.00869	-9.16720	-.00740	-.00015	-.00027	.00195
13.101	.010	.00000	-.03193	.00780	-.03194	.00779	-4.13060	-.00517	-.00015	-.00024	.00225
13.045	1.120	.00000	.01484	.00675	.01471	.00704	2.09540	-.00441	-.00015	-.00016	.00150
13.052	2.170	.00000	.05937	.00570	.05911	.00794	7.44200	-.00310	-.00015	-.00028	.00180
13.029	3.270	.00000	.10945	.00300	.10910	.00924	11.77000	-.00010	-.00015	-.00003	.00135
13.055	4.360	.00000	.15802	-.00045	.15760	.01156	13.63000	.00250	-.00015	-.00003	.00135
13.058	6.540	.00000	.25187	-.01064	.25145	.01811	13.85000	.01072	-.00030	-.00019	.00120
13.035	8.630	.00000	.35292	-.02579	.35277	.02777	12.66400	.01840	-.00030	-.00020	.00105
13.042	10.930	.00000	.46267	-.04618	.46303	.04239	10.90200	.02533	-.00030	-.00020	.00105
13.068	13.100	.00000	.57556	-.07091	.57666	.06138	9.40030	.03166	-.00015	-.00022	.00090
13.055	15.310	.00000	.68171	-.10060	.68408	.08297	8.24370	.04154	-.00015	-.00022	.00090
13.032	17.490	.00000	.77601	-.11664	.77519	.12197	6.35910	.04276	-.00330	-.00623	.01214
13.042	19.600	-.01000	.86312	-.12684	.85565	.17005	5.03360	.03016	-.01169	-.00967	.02189
13.042	21.390	.01000	.76807	-.03343	.72740	.24887	2.92180	-.05797	.01274	-.00178	-.00300
13.026	23.280	.00000	.73568	-.01019	.67982	.29140	2.41520	-.06999	.00195	-.00031	-.00015
13.019	25.320	.00000	.73553	-.00315	.65522	.31172	2.13660	-.08185	-.00060	.00032	.00180
GRADIENT	.00000	.00000	.04311	-.00097	.04299	.00016	4.26426	.00175	.00000	.00003	-.00010

WING I 25-25-0012

AMES 12-086 (LA65)

(JNC043) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .0722 M. XB
 LREF = .1591 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .120 LESWP = 25.000
 FILSWP = 25.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = .000

RUN NO. 142/ 0 RN/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
19.597	-2.250	.00000	-.12864	.00555	-.12832	.01059	-12.09000	-.0 028	.00000	-.00019	.00120
19.660	-1.140	.00000	-.08006	.00720	-.07990	.00879	-9.06740	-.00909	.00000	-.00007	.00090
19.607	-.020	.00000	-.03223	.00735	-.03223	.00736	-4.34610	-.00744	.00000	-.00008	.00090
19.584	1.140	.00000	.01484	.00705	.01470	.00734	2.01690	-.00441	.00000	-.00005	.00105
19.574	2.310	.00000	.06747	.00570	.06718	.00841	8.02250	-.00244	.00000	-.00007	.00090
19.555	3.380	.00000	.11439	.00270	.11403	.00944	12.16800	.00025	.00000	-.00007	.00090
19.555	4.500	.00000	.16432	-.00105	.16389	.01185	13.87800	.00321	.00000	-.00008	.00075
19.519	6.800	.00000	.26672	-.01274	.26635	.01893	14.12200	.01176	-.00015	-.00009	.00060
19.601	9.070	.00000	.37286	-.02969	.37288	.02946	12.66100	.02103	-.00045	-.00009	.00060
19.598	11.370	.00000	.48576	-.05142	.48636	.04535	10.70800	.02736	-.00045	-.00011	.00045
19.568	13.670	.00000	.59595	-.07751	.59739	.06553	9.12390	.03620	-.00045	-.00012	.00030
19.597	15.960	.00000	.70315	-.10915	.70606	.08840	7.98320	.04629	-.00075	-.00015	.00000
19.548	18.240	.00000	.80870	-.14453	.81330	.11585	7.01560	.05696	-.00075	-.00029	.00015
19.555	20.510	.00000	.90870	-.18096	.91450	.14889	6.14580	.06535	-.00090	-.00076	-.00015
19.515	22.460	.00000	.93073	-.10585	.90057	.25776	3.49410	-.01533	-.00285	-.00086	.00210
19.512	24.240	.01000	.86357	-.06717	.81501	.29330	2.77820	-.05621	.00510	-.00110	-.00060
GRADIENT		.00000	.04324	-.00096	.04313	.00019	4.20209	.00203	.00000	.00001	-.00004

RUN NO. 141/ 0 RN/L = 7.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
26.166	-2.440	.00000	-.13388	.00555	-.13353	.01124	-11.81800	-.01250	.00015	-.00007	.00090
26.153	-1.230	.00000	-.08321	.00735	-.08303	.00913	-9.05880	-.01091	.00000	-.00007	.00090
26.117	-.020	.00000	-.03178	.00810	-.03178	.00811	-3.89550	-.00826	.00015	.00029	-.00015
26.136	1.150	.00000	.01844	.00765	.01828	.00801	2.29640	-.00584	.00015	.00029	-.00015
26.123	2.350	.00000	.07136	.00500	.07106	.00892	7.99190	-.00412	.00000	.00014	-.00015
26.104	3.550	.00000	.12294	.00300	.12252	.01061	11.59400	-.00083	.00000	.00014	-.00015
26.084	4.690	.00000	.17466	-.00150	.17420	.01279	13.56000	.00248	.00000	.00026	-.00045
26.097	7.140	.00000	.28916	-.01439	.28771	.02153	13.31800	.01075	.00015	.00024	-.00060
26.069	9.440	.00000	.39565	-.03178	.39551	.03354	11.81100	.01906	.00000	.00023	-.00075
26.097	11.850	.00000	.50840	-.05487	.50883	.05070	10.03100	.02718	-.00015	.00000	.00000
26.074	14.220	.00000	.61979	-.08336	.62128	.07144	8.69350	.03686	-.00030	-.00001	-.00015
26.071	15.430	.00000	.67661	-.09985	.67879	.08377	8.10160	.04177	-.00045	-.00015	.00000
26.022	16.650	.00000	.73403	-.11814	.73711	.09713	7.59530	.04931	-.00060	-.00016	-.00015
26.035	19.050	.00000	.84648	-.15597	.85135	.12791	6.66020	.05879	-.00045	-.00018	-.00030
25.949	21.410	.00000	.94948	-.19750	.95609	.16263	5.87850	.06939	.00000	-.00012	-.00135
25.933	23.210	-.01000	.94468	-.11649	.91413	.26524	3.44760	-.02053	-.00495	.00366	-.00420
25.963	25.000	-.02000	.90000	-.12535	.85597	.29394	2.91250	-.04432	-.00825	.00369	-.00060
25.963	26.840	.01000	.84558	-.06882	.78555	.32038	2.45220	-.06333	.00945	.00311	-.00855
GRADIENT		.00000	.04325	-.00095	.04313	.00027	3.89275	.00208	-.00002	.00004	-.00018

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

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AMES 12-086 (LA65)

(JNC044) (18 APR 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = .0734 SQ. M. XMRP = .3152 M. XB
 LREF = .3220 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

T/C = .120 LESWP = 25.000
 FILSWP = 80.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = .000

RUN NO. 129/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
6.270	-1.990	.00000	-.06643	.00767	-.06613	.00997	-6.64520	.0353	.00013	.00089	-.00247
6.247	-.970	.00000	-.03615	.00954	-.03598	.01015	-3.54690	.00622	.00013	.00093	-.00213
6.250	.030	.00000	-.01047	.00900	-.01048	.00900	-1.16270	.00120	.00007	.00066	-.00133
6.254	1.080	.00000	.01901	.00900	.01884	.00936	2.01150	-.00389	.00013	.00097	-.00180
6.250	2.150	.00000	.05229	.00834	.05194	.01029	5.06350	-.01125	.00007	.00105	-.00193
6.263	3.150	.00000	.08197	.00627	.08151	.01076	7.57600	-.01784	.00007	.00098	-.00200
6.250	4.170	.00000	.11713	.00454	.11649	.01304	8.91840	-.02624	.00007	.00113	-.00213
6.254	6.310	.00000	.18329	-.00127	.18232	.01869	9.65730	-.04133	.00020	.00128	-.00227
6.250	8.350	.00000	.26213	-.00780	.26049	.03035	8.55540	-.06151	.00013	.00119	-.00207
6.254	10.510	.00000	.34057	-.01621	.33781	.04619	7.31500	-.07694	.00013	.00108	-.00227
6.254	12.570	.00000	.41881	-.01848	.41279	.07311	5.64670	-.09571	.00067	.00430	-.00540
6.254	14.640	.01000	.50372	-.00900	.48954	.11860	4.12830	-.12247	.00200	.00129	-.00674
6.250	16.770	.01000	.58769	-.00860	.56518	.16133	3.50290	-.14539	.00287	.00027	-.00654
6.260	18.820	.01000	.67367	-.01067	.64110	.20722	3.09370	-.16721	.00247	-.00072	-.00740
6.250	20.950	.01000	.75918	-.01647	.71488	.25606	2.79240	-.18608	.00487	-.00136	-.01061
6.254	23.000	.02000	.82621	-.01868	.76783	.30564	2.51240	-.19953	.00387	-.00023	-.01487
6.244	25.070	.02000	.89578	-.02508	.82292	.35727	2.30300	-.21088	.00247	-.00082	-.01614
GRADIENT	.00000	.00000	.02946	-.00058	.02931	.00041	2.60698	-.00624	-.00001	.00004	.00002

RUN NO. 128/ 0 RN/L = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
13.009	-2.070	.00000	-.06910	.00800	-.06877	.01049	-6.53250	.01424	.00007	-.00033	.00213
12.996	-.950	-.01000	-.03568	.00900	-.03553	.00959	-3.70030	.00703	.00000	-.00062	.00307
12.996	.090	-.01000	-.00687	.00920	-.00688	.00919	-.74960	.00108	.00000	-.00041	.00300
12.989	1.120	-.01000	.02328	.00894	.02310	.00939	2.45820	-.00555	-.00007	-.00046	.00287
12.999	2.190	-.01000	.05443	.00774	.05409	.00981	5.50630	-.01245	-.00007	-.00033	.00280
13.006	3.270	.00000	.08598	.00614	.08549	.01103	7.75950	-.01912	-.00007	-.00043	.00247
12.999	4.370	.00000	.11866	.00374	.11803	.01277	9.25300	-.02606	-.00007	-.00035	.00240
12.986	6.500	.00000	.18516	-.00220	.18422	.01877	9.82110	-.04065	-.00007	-.00028	.00227
12.989	8.670	.00000	.26313	-.01101	.26178	.02879	9.09990	-.05923	-.00027	-.00020	.00220
12.953	10.840	.00000	.34954	-.02061	.34728	.04551	7.63030	-.07909	.00000	-.00004	.00113
12.973	13.050	-.01000	.43462	-.02495	.42903	.07384	5.81190	-.09963	.00120	.00472	-.00487
12.976	15.220	.00000	.52379	-.01447	.50922	.12354	4.12220	-.12769	.00193	.00064	-.00260
12.980	17.410	.01000	.60564	-.01507	.58240	.16683	3.49100	-.15010	.00133	-.00075	-.00414
12.953	19.570	.02000	.69101	-.01988	.65775	.21273	3.09200	-.17068	.00247	-.00105	-.00674
12.950	21.730	.03000	.75991	-.02221	.71414	.25071	2.73940	-.18810	.00207	.00037	-.01201
12.940	23.920	.03000	.81908	-.02635	.75941	.30802	2.46540	-.20053	.00500	-.00107	-.01227
12.927	26.010	.04000	.87497	-.03275	.80071	.35427	2.26010	-.20966	.00727	-.00210	-.01334
GRADIENT	.00067	.00067	.02907	-.00057	.02892	.00035	2.56090	-.00625	-.00002	.00001	-.00002

WING I 25-80-0012

AMES 12-086 (LA65)

(JNC044) (18 APR 77)

REFERENCE DATA

SREF = .0734 SQ. M. XMRP = .3152 M. XB
 LREF = .3220 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .120 LESWP = 25.000
 FILSWP = 80.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = .000

RUN NO. 127/ 0 RN/L = 5.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
19.469	-2.270	.00000	-.07764	.00674	-.07731	.00981	-7.88890	.0595	.00013	.00010	.00033
19.483	-1.130	.00000	-.04582	.00780	-.04566	.00871	-5.22600	.00922	.00013	.00024	.00027
19.469	.000	.00000	-.01274	.00827	-.01274	.00827	-1.53510	.00197	.00007	.00010	.00033
19.463	1.160	.00000	.02114	.00794	.02098	.00836	2.51770	-.00525	.00007	.00018	.00020
19.476	2.260	.00000	.05516	.00700	.05484	.00917	5.98280	-.01265	.00007	.00025	.00013
19.529	3.380	.00000	.08718	.00507	.08673	.01020	8.51650	-.01930	.00007	.00025	.00020
19.496	4.530	.00000	.12259	.00260	.12201	.01228	9.93390	-.02693	.00013	.00032	.00013
19.506	6.750	.00000	.19363	-.00414	.19277	.01865	10.32900	-.04258	.00007	.00034	-.00007
19.502	8.960	.00000	.27467	-.01354	.27343	.02940	9.30020	-.06155	-.00007	.00047	.00000
19.506	11.270	.00000	.36485	-.02401	.36251	.04775	7.58220	-.08166	.00000	.00041	-.00013
19.529	13.540	.00000	.44736	-.03508	.44314	.07063	6.27390	-.09916	.00093	.00096	-.00173
19.519	15.910	.00000	.54521	-.03402	.53365	.11674	4.57260	-.12643	.00474	.00705	-.01207
19.483	18.110	.03000	.63051	-.02421	.60681	.17298	3.50760	-.15317	.00067	-.00315	-.00273
19.453	20.380	.04000	.71276	-.02575	.67711	.22408	3.02160	-.17526	.00180	-.00051	-.01041
19.460	22.650	.05000	.79233	-.02935	.74252	.27804	2.67060	-.19370	.00300	-.00056	-.01414
19.466	24.850	.07000	.85096	-.03202	.78562	.32856	2.39150	-.20635	.00680	-.00130	-.01774
19.414	27.090	.07000	.91259	-.04062	.83097	.37942	2.19010	-.21559	.00560	-.00161	-.01948
GRADIENT		.00000	.02950	-.00060	.02936	.00036	2.79277	-.00632	-.00000	.00003	-.00003

RUN NO. 126/ 0 RN/L = 7.91 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
26.074	-2.220	.00000	-.07737	.00640	-.07707	.00940	-8.19150	.01579	.00007	.00016	-.00033
26.068	-1.070	.00000	-.04442	.00754	-.04427	.00837	-5.31180	.00852	.00007	.00024	-.00040
26.054	-.010	.00000	-.01447	.00787	-.01447	.00787	-1.83430	.00211	.00000	.00030	-.00040
26.015	1.180	.00000	.01934	.00760	.01918	.00800	2.40400	-.00498	.00007	.00031	-.00047
25.995	2.340	.00000	.05476	.00647	.05445	.00870	6.23830	-.01294	.00007	.00032	-.00060
26.091	3.500	.00000	.08831	.00460	.08787	.00998	8.79940	-.01983	.00013	.00038	-.00053
26.094	4.630	.00000	.12406	.00213	.12348	.01214	10.20300	-.02733	.00007	.00040	-.00067
26.012	6.950	.00000	.20023	-.00580	.19944	.01867	10.62000	-.04436	-.00007	.00048	-.00087
26.104	9.290	.00000	.28548	-.01494	.28414	.03134	9.05930	-.06403	-.00020	.00064	-.00120
25.995	11.640	.00000	.37232	-.02621	.36995	.04945	7.47780	-.08247	.00013	.00080	-.00220
26.012	14.050	.01000	.46143	-.03915	.45713	.07404	6.17340	-.10172	.00087	.00125	-.00420
25.999	16.490	.02000	.55461	-.04569	.54477	.11361	4.79540	-.12407	.00340	.00636	-.01394
25.713	18.860	.05000	.65346	-.03735	.63045	.17589	3.58380	-.15555	.00327	.00170	-.01341
25.713	21.170	.06000	.73817	-.03482	.70093	.23411	2.99420	-.17854	.00347	.00059	-.01507
25.821	23.560	.08000	.81948	-.03775	.76626	.29295	2.61570	-.19721	.00574	.00003	-.01841
25.851	25.910	.10000	.89465	-.04209	.82311	.35307	2.33150	-.21315	.00754	-.00071	-.02128
25.828	28.180	.10000	.95001	-.04822	.85018	.40613	2.11820	-.22111	.00720	-.00220	-.02028
GRADIENT		.00000	.02931	-.00063	.02918	.00039	2.85477	-.00628	.00001	.00003	-.00005

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS II

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AMES 12-086 (LA65)

(JNC045) (18 APR 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = .0490 SQ. M. XMRP = .0722 M. XB
 LREF = .1591 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

T/C = .080 LESWP = 25.000
 FILSWP = 25.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = .000

RUN NO. 148/ 0 RN/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
6.280	-2.050	.00000	-.09830	.00580	-.09810	.00929	-10.55100	-.0.790	.00000	.00070	-.00530
6.273	-1.010	.00000	-.05310	.00600	-.05300	.00693	-7.64650	-.01830	-.00010	.00080	-.00470
6.267	.030	.00000	-.00660	.00680	-.00660	.00680	-.97570	-.01810	-.00020	.00060	-.00350
6.263	1.110	.00000	.03520	.00500	.03510	.00565	6.20830	-.01250	-.00020	.00070	-.00350
6.247	2.160	.00000	.08990	.00610	.08970	.00947	9.46860	-.01650	-.00020	.00040	-.00160
6.244	3.220	.00000	.13880	.00310	.13840	.01089	12.71000	-.01150	-.00020	.00050	-.00170
6.237	4.190	.00000	.19230	.00110	.19180	.01510	12.69600	-.01490	-.00030	.00040	-.00180
6.231	6.330	.00000	.29730	-.00940	.29650	.02342	12.65800	-.01380	-.00030	.00030	-.00130
6.234	8.400	.00000	.39300	-.02180	.39190	.03576	10.96000	-.00920	-.00030	.00040	-.00210
6.224	10.600	.00000	.48920	-.03620	.48760	.05353	9.10820	.00020	-.00030	.00030	-.00220
6.224	12.650	.00000	.59010	-.04150	.58480	.08993	6.58420	-.00020	-.00050	-.00090	-.00040
6.221	14.670	.00000	.69460	-.03730	.68140	.13990	4.87030	-.02120	-.00030	-.00020	-.00060
6.214	16.760	.00000	.73830	-.01990	.71270	.19382	3.67720	-.05890	-.00050	.00010	-.00160
6.227	18.790	.00000	.76070	-.01180	.72400	.23366	3.09850	-.08050	-.00050	-.00010	-.00110
6.224	20.760	.00000	.79280	-.01510	.74660	.26688	2.79760	-.08210	.00180	.00000	-.00290
6.208	22.740	.00000	.79090	-.01170	.73390	.29483	2.48940	-.09240	.00670	-.00040	-.00450
6.195	24.740	.02000	.77980	-.00500	.71030	.32175	2.20760	-.10330	.02820	.00040	-.03190
GRADIENT		.00000	.04611	-.00070	.04600	.00095	4.13373	.00083	-.00004	-.00006	.00063

RUN NO. 147/ 0 RN/L = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
13.049	-2.100	.00000	-.10340	.00530	-.10310	.00910	-11.32900	-.01680	-.00020	.00000	.00010
13.032	-1.070	.00000	-.05740	.00660	-.05730	.00769	-7.44780	-.01580	-.00030	.00000	-.00040
13.019	.040	.00000	-.01010	.00670	-.01010	.00667	-1.51690	-.01510	-.00030	.00010	-.00040
12.993	1.110	.00000	.03510	.00650	.03490	.00715	4.88400	-.01300	-.00010	.00010	-.00050
12.980	2.230	.00000	.08470	.00470	.08450	.00795	10.62800	-.01080	-.00010	.00000	-.00020
12.993	3.300	.00000	.13160	.00180	.13130	.00936	14.03000	-.00880	-.00020	.00000	-.00030
13.016	4.430	.00000	.18730	-.00160	.18690	.01281	14.58500	-.00660	-.00010	-.00010	-.00040
12.993	6.660	.00000	.29230	-.01300	.29180	.02098	13.90900	-.00040	-.00010	.00000	-.00080
12.973	8.770	.00000	.39910	-.02800	.39870	.03318	12.01700	.00390	-.00020	.00000	-.00100
12.993	11.030	.00000	.50990	-.04490	.50910	.05342	9.52890	.01000	-.00040	-.00050	-.00080
12.986	13.210	.00000	.61600	-.05080	.61130	.09130	6.69610	.00770	-.00080	-.00120	-.00110
12.983	15.330	.00000	.71880	-.04450	.70500	.14707	4.79380	-.01290	.00030	.00040	-.00310
12.976	17.340	.00000	.75550	-.02800	.72950	.19848	3.67560	-.05020	.00690	-.00160	-.00060
13.022	19.430	.01000	.79520	-.02300	.75760	.24285	3.11960	-.06920	.00590	-.00150	-.00180
12.996	21.450	.01000	.82160	-.02460	.77370	.27750	2.78900	-.07200	.00510	-.00090	-.00510
13.006	23.430	.02000	.80070	-.01800	.74190	.30190	2.45730	-.08120	.00850	-.00040	-.01080
12.996	25.450	.05000	.79340	-.00900	.72030	.33277	2.16450	-.10010	.03190	.00100	-.03830
GRADIENT		.00000	.04407	-.00106	.04396	.00052	4.34918	.00160	.00002	-.00001	-.00004

WING I 25-25-0008

AMES 12-086 (LA65)

(JNC045) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .0722 M. XB
 LREF = .1591 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 25.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = .000

RUN NO. 146/ 0 RN/L = 5.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
19.512	-2.190	.00000	-.11020	.00480	-.10990	.00901	-12.20500	-.01640	-.00030	.00040	-.00120
19.499	-1.150	.00000	-.06490	.00610	-.06480	.00735	-8.81130	-.01490	-.00020	.00050	-.00130
19.607	.040	.00000	-.00900	.00670	-.00900	.00671	-1.34180	-.01360	-.00010	.00040	-.00110
19.555	1.210	.00000	.03920	.00590	.03910	.00674	5.79520	-.01250	-.00010	.00040	-.00120
19.538	2.310	.00000	.08980	.00430	.08950	.00789	11.35200	-.01030	.00000	.00040	-.00150
19.522	3.440	.00000	.13970	.00150	.13940	.00988	14.11400	-.00740	.00010	.00030	-.00150
19.519	4.570	.00000	.19120	-.00250	.19080	.01269	15.03600	-.00460	.00000	.00030	-.00160
19.509	6.850	.00000	.29920	-.01430	.29880	.02155	13.86500	.00080	.00030	.00030	-.00170
19.496	9.260	.00000	.42010	-.03300	.41990	.03500	11.99700	.00720	.00020	.00020	-.00160
19.483	11.460	.00000	.52550	-.05090	.52510	.05455	9.62540	.01420	-.00070	-.00070	-.00080
19.509	13.750	.00000	.63310	-.05420	.62780	.09780	6.41960	.01020	.00030	-.00060	-.00090
19.469	16.020	.00000	.74110	-.05430	.72740	.15227	4.77670	-.00550	-.00090	-.00050	-.00130
19.466	18.110	.00000	.80370	-.04270	.77710	.20923	3.71440	-.04290	-.00290	-.00070	.00040
19.437	20.090	.01000	.81190	-.02780	.77210	.25272	3.05520	-.06810	.00240	-.00160	-.00010
19.440	22.170	.01000	.83340	-.02660	.78180	.28983	2.69740	-.07320	.00550	-.00080	-.00470
19.417	24.050	.05000	.80190	-.01760	.73950	.31066	2.38030	-.08920	.02380	-.00100	-.02330
19.374	26.040	.07000	.80710	-.01190	.73040	.34370	2.12510	-.10040	.03160	.00160	-.03970
GRADIENT		.00000	.04451	-.00106	.04441	.00054	4.42582	.00169	.00005	-.00002	-.00006

RUN NO. 145/ 0 RN/L = 7.90 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
25.969	-2.340	.00000	-.11480	.00510	-.11450	.00976	-11.73900	-.01680	-.00020	.00020	.00010
25.986	-1.120	.00000	-.06370	.00700	-.06350	.00829	-7.66150	-.01580	-.00020	.00050	-.00060
25.992	-.010	.00000	-.01470	.00740	-.01470	.00739	-1.99390	-.01360	-.00020	.00030	-.00020
25.949	1.190	.00000	.03900	.00680	.03890	.00761	5.10700	-.01290	-.00020	.00030	-.00030
25.959	2.390	.00000	.09410	.00480	.09380	.00877	10.70100	-.01110	-.00010	.00030	-.00040
25.959	3.560	.00000	.14500	.00210	.14460	.01111	13.02100	-.00720	-.00010	.00010	-.00030
25.999	4.780	.00000	.20380	-.00260	.20330	.01436	14.15700	-.00480	-.00010	.00020	-.00050
25.969	7.180	.00000	.31700	-.01570	.31650	.02406	13.15100	.00110	-.00020	.00000	-.00040
25.923	9.540	.00000	.43370	-.03470	.43350	.03762	11.52300	.00860	.00010	.00000	-.00060
25.917	11.940	.00000	.54590	-.05470	.54540	.05947	9.17110	.01610	-.00080	-.00100	.00010
25.913	14.370	.00000	.66190	-.06400	.65710	.10223	6.42790	.01290	-.00110	-.00070	.00110
25.923	16.690	.00000	.76760	-.05860	.75210	.16424	4.57910	-.00920	-.00100	.00050	-.00170
25.881	18.810	.01000	.83660	-.04860	.80760	.22381	3.60840	-.04920	.00750	.00130	-.00460
25.881	20.690	.02000	.82480	-.03580	.78430	.25787	3.04130	-.07690	.01110	-.00270	-.00080
25.864	22.790	.02000	.85410	-.03540	.80120	.29811	2.60750	-.07860	.01510	.00240	-.01260
25.917	24.720	.07000	.81090	-.01740	.74380	.32328	2.30080	-.09160	.02760	-.00090	-.02580
25.838	26.740	.10000	.82110	-.01350	.73930	.35739	2.06860	-.10260	.03380	.00210	-.04290
GRADIENT		.00000	.04475	-.00108	.04463	.00063	3.97356	.00168	.00002	-.00002	-.00004

DATE 19 APR 77

AMES 12FT 086-1-12 (LA-65) SHIPS 11

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AMES 12-086 (LA65)

(JNC046) (18 APR 77)

REFERENCE DATA

SREF = .0734 SQ. M. XMRP = .3152 M. XB
 LREF = .3220 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 80.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = .000

RUN NO. 13/ 0 RN/L = 1.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
6.427	-1.990	.00000	-.06190	.00820	-.06160	.01032	-5.96720	.0070	.00050	.00100	-.00110
6.424	-.960	.00000	-.02800	.00910	-.02790	.00953	-2.92400	.00220	.00050	.00130	-.00160
6.414	.070	.00000	.00410	.00890	.00410	.00886	.45910	-.00430	.00050	.00130	-.00130
6.411	1.120	.00000	.03610	.00860	.03590	.00926	3.88190	-.01180	.00040	.00100	-.00000
6.401	2.140	.00000	.06800	.00750	.06760	.01008	6.70960	-.01890	.00060	.00180	-.00190
6.382	3.190	.00000	.10440	.00550	.10390	.01126	9.23380	-.02820	.00040	.00140	-.00070
6.388	4.220	.00000	.14160	.00350	.14100	.01399	10.15500	-.03710	.00040	.00130	-.00030
6.382	6.320	.00000	.21360	-.00170	.21250	.02177	9.76100	-.05340	.00030	.00120	-.00130
6.388	8.380	.00000	.29060	-.00790	.28870	.03456	8.35270	-.06900	.00040	.00190	-.00020
6.375	10.500	.00000	.37630	-.00890	.37170	.05982	6.21310	-.08920	.00030	.00440	-.00260
6.378	12.600	.00000	.47300	-.00760	.46320	.09569	4.84130	-.11520	.00050	.00160	-.00010
6.365	14.680	.00000	.56460	-.00810	.54830	.13526	4.05350	-.13780	.00100	.00180	-.00060
6.372	16.810	.00000	.66750	-.01170	.64230	.18189	3.53150	-.16300	.00100	.00100	-.00010
6.359	18.910	.00000	.76780	-.01660	.73170	.23313	3.13860	-.18590	.00100	.00020	-.00050
6.359	21.010	.00000	.86580	-.02140	.81590	.29044	2.80920	-.20680	.00130	.00030	-.00440
6.349	23.120	.01000	.96090	-.02620	.89400	.35319	2.53110	-.22570	.00210	.00000	-.00780
6.359	25.220	.01000	1.04370	-.03020	.95710	.41737	2.29310	-.24160	.00220	.00010	-.01030
GRADIENT		.00000	.03239	-.00078	.03224	.00053	2.72174	-.00755	-.00001	.00005	.00012

RUN NO. 12/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
13.078	-2.070	.00000	-.06540	.00670	-.06510	.00905	-7.19190	.01230	.00020	.00040	-.00070
13.078	-1.010	.00000	-.03540	.00770	-.03520	.00832	-4.23390	.00510	.00020	.00060	-.00100
13.072	.070	.00000	-.00120	.00810	-.00120	.00806	-.14770	-.00240	.00010	.00050	-.00040
13.072	1.160	.00000	.02900	.00780	.02990	.00834	3.46220	-.00880	.00010	.00040	-.00010
13.058	2.240	.00000	.06420	.00670	.06390	.00918	6.96690	-.01720	.00010	.00070	-.00040
13.065	3.330	.00000	.09820	.00500	.09870	.01075	9.18030	-.02510	.00010	.00080	-.00050
13.055	4.360	.00000	.13410	.00270	.13350	.01283	10.40100	-.03320	.00000	.00030	-.00030
13.029	6.510	.00003	.20680	-.00350	.20580	.01930	10.34200	-.05030	.00000	.00080	-.00030
13.039	8.700	.00000	.28930	-.01070	.28760	.03319	8.66690	-.06760	.00010	.00120	-.00050
13.049	10.880	.01000	.37870	-.01470	.37470	.05710	6.56210	-.08790	.00070	.00350	-.00230
13.052	13.100	.00000	.47900	-.00920	.46860	.09959	4.70590	-.11620	.00070	.00070	-.00090
13.068	15.290	.00000	.57030	-.00920	.55250	.14149	3.90520	-.13960	.00090	-.00040	-.00250
13.029	17.500	.00000	.65960	-.01290	.64250	.18903	3.39860	-.16310	.00160	.00010	-.00010
13.026	19.720	.01000	.77460	-.01820	.73530	.24422	3.01080	-.18660	.00090	.00030	-.00270
13.009	21.960	.01000	.87970	-.02340	.82470	.30725	2.68400	-.20910	.00140	-.00040	-.00450
13.055	24.180	.02000	.97130	-.02790	.89760	.37236	2.41050	-.22700	.00210	-.00050	-.00680
13.029	26.350	.02000	1.05030	-.03300	.95590	.43661	2.18930	-.24050	.00170	-.00100	-.00800
GRADIENT		.00000	.03096	-.00062	.03081	.00057	2.87910	-.00702	-.00003	.00001	.00013

WING I 25-80-0008

AMES 12-086 (LA65)

(JNC046) (18 APR 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = .0734 SQ. M. XMRP = .3152 M. XB
 LREF = .3220 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

T/C = .080 LESWP = 25.000
 FILSWP = 80.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = .000

RUN NO. 11/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CL	CBL	CYN	CY
19.673	-2.170	.00000	-.06970	.00630	-.06940	.00892	-7.78620	.0300	.00030	.00010	-.00010
19.670	-1.050	.00000	-.03610	.00740	-.03600	.00811	-4.43700	.00540	.00030	.00000	.00010
19.650	.080	.00000	-.00200	.00790	-.00200	.00792	-.25470	-.00240	.00020	.00010	.00010
19.597	1.180	.00000	.03120	.00740	.03100	.00801	3.87580	-.00990	.00020	.00010	.00020
19.591	2.310	.00000	.06510	.00620	.06480	.00877	7.38820	-.01720	.00020	.00020	.00010
19.581	3.390	.00000	.09820	.00430	.09780	.01012	9.66330	-.02460	.00020	.00030	.00000
19.578	4.490	.00000	.13380	.00170	.13320	.01216	10.95900	-.03260	.00020	.00050	.00010
19.591	6.750	.00000	.21210	-.00480	.21120	.02016	10.47800	-.05080	.00010	.00040	.00040
19.571	9.050	.00000	.30340	-.01370	.30180	.03422	8.81900	-.07100	.00020	.00060	.00040
19.591	11.320	.00000	.39050	-.02310	.38740	.05401	7.17260	-.08920	.00050	.00060	.00000
19.588	13.630	-.01000	.49530	-.01110	.48400	.10591	4.57010	-.12050	.00040	-.00010	.00160
19.561	15.940	.00000	.59340	-.01110	.57350	.15235	3.76510	-.14610	.00080	-.00030	.00130
19.555	18.270	.00000	.69670	-.01590	.66650	.20336	3.27740	-.17000	.00110	-.00070	.00090
19.555	20.600	.01000	.80020	-.02140	.75660	.26157	2.89250	-.19330	.00090	-.00030	-.00190
19.565	22.920	.03000	.89260	-.02630	.83230	.32341	2.57350	-.21260	.00170	-.00040	-.00870
19.542	25.170	.04000	.96440	-.03060	.88580	.38252	2.31570	-.22490	.00180	-.00100	-.01080
19.568	27.370	.03000	1.00820	-.03450	.91120	.43289	2.10500	-.22530	.00110	-.00140	-.00800
GRADIENT		.00000	.03043	-.00069	.03030	.00047	2.96389	-.00681	-.00002	.00006	.00001

RUN NO. 10/ 0 RN/L = 7.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	BETA	CN	CA	CL	CD	L/D	CLM	CBL	CYN	CY
26.291	-2.240	.00000	-.07200	.00590	-.07170	.00874	-8.20660	.01370	.00030	.00050	-.00120
26.248	-1.100	.00000	-.03790	.00700	-.03770	.00775	-4.86900	.00580	.00040	.00040	-.00120
26.189	.040	.00000	-.00490	.00750	-.00490	.00749	-.64880	-.00160	.00040	.00050	-.00130
26.238	1.180	.00000	.02960	.00710	.02950	.00770	3.82790	-.00930	.00030	.00030	-.00070
26.205	2.320	.00000	.06540	.00570	.06510	.00837	7.78030	-.01740	.00030	.00030	-.00080
26.143	3.470	.00000	.10300	.00380	.09950	.00989	10.05600	-.02510	.00020	.00040	-.00090
26.159	4.630	.00000	.13700	.00120	.13640	.01225	11.13900	-.03330	.00020	.00040	-.00100
26.123	7.000	.00000	.22030	-.00550	.21940	.02127	10.31600	-.05240	.00020	.00060	-.00050
26.130	9.370	.00000	.31070	-.01480	.30900	.03600	8.58270	-.07190	.00030	.00070	-.00070
26.176	11.750	.00000	.39950	-.02530	.39630	.05667	6.99330	-.09040	.00040	.00060	-.00050
26.159	14.200	-.01000	.50190	-.02740	.49320	.09656	5.10790	-.11570	.00120	.00580	-.00640
26.127	16.620	.00000	.61630	-.01340	.59440	.16341	3.63750	-.15160	.00040	.00000	.00010
26.107	19.080	.00000	.72540	-.01880	.69170	.21932	3.15370	-.17740	.00080	.00000	.00010
26.189	21.540	.01000	.82980	-.02500	.78100	.28148	2.77460	-.20070	.00050	-.00020	-.00270
26.153	23.940	.05000	.92000	-.03030	.85320	.34564	2.46840	-.21900	.00200	-.00050	-.01060
26.094	26.240	.05000	.98640	-.03520	.90030	.40459	2.22530	-.22980	.00170	-.00140	-.00940
26.156	28.490	.04000	1.02250	-.03800	.91690	.45434	2.01800	-.22890	.00200	-.00220	-.00600
GRADIENT		.00000	.03038	-.00070	.03025	.00049	3.00621	-.00682	-.00002	-.00002	.00006

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AMES 12-086 (LA65)

(KNC001) (18 APR 77)

REFERENCE DATA

SREF =	.0490 SQ. M.	XMRP =	.0722 M. XB
LREF =	.1591 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESWP =	25.000
FILSWP =	25.000	TESWP =	25.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 17/ 0 RN/L = 1.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
6.467	-2.030	6177.	.00120	.00310	.00430
6.467	-.990	6177.	.00130	.00310	.00420
6.467	.120	6177.	.00150	.00320	.00410
6.450	1.120	6177.	.00150	.00320	.00430
6.450	2.210	6177.	.00150	.00320	.00430
6.454	3.240	6177.	.00150	.00310	.00440
6.444	4.260	6177.	.00160	.00290	.00430
6.470	6.340	6224.	.00170	.00270	.00410
6.457	8.410	6177.	.00180	.00260	.00400
6.447	10.570	6177.	.00180	.00220	.00400
6.447	12.640	6177.	.00190	.00250	.00430
6.460	14.700	6224.	.00190	.00260	.00470
6.467	16.760	6224.	.00300	.00200	.00530
6.464	18.750	6224.	.00260	.00170	.00700
6.450	20.790	6177.	.00340	.00170	.00880
6.454	22.760	6224.	-.01170	.01110	.01390
6.470	24.730	6224.	.00340	.00150	.01650
	GRADIENT	.00002	.00005	-.00002	.00002

RUN NO. 16/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.081	-2.110	12688.	.00060	.00180	.00440
13.062	-1.050	12640.	.00060	.00190	.00440
13.081	.050	12736.	.00060	.00170	.00440
13.075	1.160	12736.	.00060	.00160	.00450
13.111	2.240	12784.	.00060	.00150	.00450
13.098	3.330	12784.	.00070	.00140	.00450
13.104	4.420	12832.	.00070	.00140	.00450
13.078	6.620	12784.	.00070	.00140	.00460
13.072	8.760	12832.	.00070	.00120	.00440
13.052	11.030	12784.	.00030	.00050	.00440
13.068	13.170	12832.	.00030	.00060	.00450
13.078	15.390	12880.	-.00020	.00140	.00500
13.078	17.370	12880.	.00160	.00040	.00580
13.065	19.370	12832.	.00200	.00040	.00720
13.055	21.450	12832.	-.00400	.00370	.00950
13.062	23.480	12832.	.00710	-.00260	.01190
13.075	25.350	12880.	-.00080	.00100	.01750
	GRADIENT	25.11277	.00002	-.00008	.00002

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AMES 12-086 (LA65)

(KNC001) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .0722 M. XB
 LREF = .1591 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 25.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 15/ 0 RN/L = 5.86 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.256	-2.220	19008.	.00040	.00140	.00480
19.240	-1.060	18960.	.00030	.00120	.00470
19.220	.030	18960.	.00040	.00130	.00480
19.214	1.140	18960.	.00040	.00110	.00500
19.286	2.260	19152.	.00040	.00100	.00490
19.279	3.400	19152.	.00040	.00100	.00490
19.296	4.530	19152.	.00040	.00100	.00480
19.246	6.850	19104.	.00050	.00080	.00470
19.266	9.160	19152.	.00050	.00070	.00460
19.240	11.470	19104.	-.00060	-.00010	.00440
19.250	13.740	19152.	-.00030	-.00140	.00470
19.220	15.960	19104.	-.00320	.00000	.00530
19.200	18.050	19056.	-.00720	.00040	.00640
19.204	20.050	19104.	-.00450	.00060	.00780
19.207	22.180	19104.	-.00980	.00290	.00970
19.145	24.070	19008.	.00460	-.00340	.01260
19.171	26.070	19056.	-.02700	.01220	.02010
GRADIENT		31.99891	.00001	-.00006	.00002

RUN NO. 14/ 0 RN/L = 7.89 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.008	-2.300	24610.	.00000	.00030	.00450
25.953	-1.170	24610.	.00000	.00010	.00460
26.077	-.010	24945.	.00000	.00010	.00470
26.077	1.170	25041.	-.00010	.00000	.00460
25.989	2.350	24898.	-.00010	.00000	.00460
25.986	3.540	24945.	.00000	.00000	.00440
25.920	4.750	24898.	.00000	.00000	.00460
25.917	7.160	24945.	.00000	-.00010	.00450
25.907	9.580	24993.	-.00010	-.00020	.00440
25.894	11.950	25041.	-.00140	-.00130	.00430
25.858	14.350	25089.	-.00210	-.00200	.00460
25.854	16.670	25089.	-.00960	-.00230	.00500
25.848	18.740	25137.	-.01560	.00300	.00560
25.759	20.740	24993.	-.01290	.00480	.00790
25.808	22.870	25137.	-.00350	.00150	.00970
25.782	24.590	25137.	-.02340	.01060	.01650
25.772	26.590	25185.	-.02210	.01030	.01870
GRADIENT		44.73789	-.00000	-.00004	-.00001

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AMES 12-086 (LA65)

(KNC002) (18 APR 77)

REFERENCE DATA

SREF = .0734 SQ. M. XMRP = .3152 M. XB
 LREF = .3220 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 80.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 21/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
6.293	-2.000	6033.	-.00010	-.00090	.00140
6.260	-.970	6033.	-.00010	-.00090	.00130
6.244	.070	6033.	-.00020	-.00110	.00130
6.234	1.110	6033.	-.00020	-.00080	.00130
6.221	2.160	5985.	-.00030	-.00100	.00130
6.224	3.180	6033.	-.00010	-.00040	.00140
6.217	4.230	6033.	-.00020	-.00050	.00130
6.214	6.320	6033.	-.00020	-.00030	.00130
6.204	8.390	5985.	-.00010	-.00040	.00150
6.211	10.480	6033.	.00010	.00140	.00160
6.201	12.600	6033.	.00020	.00000	.00170
6.198	14.710	6033.	.00080	-.00040	.00180
6.191	16.820	6033.	.00090	-.00070	.00200
6.195	18.920	6033.	.00110	-.00110	.00220
6.201	21.000	6033.	.00180	-.00220	.00250
6.191	23.110	6033.	.00330	-.00440	.00280
6.195	25.210	6033.	.00380	-.00520	.00320
GRADIENT		-1.66231	-.00001	.00008	-.00000

RUN NO. 20/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.173	-2.090	12928.	.00010	-.00040	.00160
13.144	-1.030	12880.	.00020	-.00010	.00160
13.140	.070	12880.	.00020	-.00010	.00160
13.131	1.150	12880.	.00010	-.00030	.00160
13.121	2.220	12880.	.00010	-.00020	.00170
13.114	3.320	12880.	.00010	-.00030	.00170
13.098	4.370	12880.	.00000	-.00020	.00170
13.098	6.540	12880.	.00010	.00000	.00180
13.085	8.730	12880.	.00010	.00000	.00190
13.081	10.910	12880.	.00130	.00280	.00210
13.049	13.120	12832.	.00090	.00010	.00210
13.121	15.320	12975.	.00070	-.00050	.00220
13.088	17.570	12928.	.00150	-.00100	.00240
13.075	19.800	12880.	.00190	-.00140	.00260
13.045	22.000	12832.	.00270	-.00260	.00300
13.088	24.180	12928.	.00390	-.00410	.00350
13.108	26.360	12975.	.00400	-.00450	.00430
GRADIENT		-4.74463	-.00002	.00000	.00002

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AMES 12-086 (LA65)

(KNC002) (18 APR 77)

REFERENCE DATA

SREF = .0734 SQ. M. XMRP = .3152 M. XB
 LREF = .3220 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 80.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 19/ 0 RN/L = 5.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.597	-2.170	19008.	.00030	-.00020	.00170
19.545	-1.070	19008.	.00020	-.00010	.00170
19.561	.050	19056.	.00020	.00000	.00170
19.515	1.200	19008.	.00020	-.00010	.00170
19.522	2.290	19056.	.00010	.00000	.00170
19.522	3.380	19104.	.00020	.00020	.00170
19.489	4.500	19104.	.00020	.00010	.00190
19.506	6.750	19152.	.00020	.00010	.00190
19.489	9.050	19152.	.00020	.00030	.00190
19.499	11.360	19200.	.00050	.00030	.00220
19.489	13.680	19200.	.00180	.00130	.00230
19.499	15.980	19200.	.00080	-.00020	.00240
19.453	18.330	19152.	.00140	-.00110	.00260
19.440	20.670	19152.	.00200	-.00150	.00280
19.443	22.960	19200.	.00320	-.00340	.00330
19.473	25.240	19248.	.00370	-.00420	.00390
19.466	27.460	19248.	.00290	-.00430	.00510
GRADIENT		15.31982	-.00001	.00005	.00002

RUN NO. 18/ 0 RN/L = 7.90 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
25.976	-2.260	25281.	.00030	.00000	.00190
25.917	-1.120	25233.	.00030	.00010	.00190
25.946	.050	25329.	.00030	.00000	.00190
25.999	1.200	25472.	.00030	.00010	.00190
26.015	2.340	25568.	.00020	.00020	.00180
25.963	3.480	25472.	.00010	.00020	.00180
25.949	4.660	25472.	.00030	.00020	.00190
25.926	7.040	25472.	.00020	.00030	.00190
25.894	9.390	25472.	.00030	.00040	.00200
25.900	11.810	25520.	.00050	.00040	.00210
25.884	14.230	25520.	.00350	.00610	.00230
25.913	16.710	25616.	.00090	-.00040	.00240
25.867	19.180	25568.	.00190	-.00120	.00260
25.854	21.620	25568.	.00240	-.00160	.00300
25.838	23.990	25568.	.00360	-.00370	.00340
25.854	26.390	25616.	.00270	-.00360	.00410
25.930	28.660	25807.	.00170	-.00410	.00590
GRADIENT		40.08547	-.00002	.00003	-.00001

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AMES 12-086 (LA65)

(KNC003) (18 APR 77)

REFERENCE DATA

SREF =	.0643 SQ. M.	XMRP =	.2304 M. XB
LREF =	.2550 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESWP =	25.000
FILSWP =	75.000	TESWP =	25.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 40/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.111	-2.060	12545.	.00000	-.00050	.00140
13.101	-1.030	12545.	-.00010	-.00050	.00140
13.094	.060	12545.	-.00030	-.00060	.00130
13.078	1.170	12545.	-.00040	-.00040	.00130
13.039	2.180	12449.	-.00040	-.00030	.00150
13.039	3.230	12497.	-.00040	-.00020	.00140
13.062	4.310	12545.	-.00030	.00010	.00150
13.039	6.350	12545.	-.00040	.00020	.00150
13.016	8.470	12497.	-.00020	.00040	.00170
12.999	10.600	12497.	.00030	.00130	.00190
12.999	12.710	12497.	-.00060	-.00100	.00190
12.993	14.870	12497.	-.00220	-.00190	.00210
12.996	17.010	12545.	-.00040	.00010	.00230
12.986	19.120	12497.	-.00010	.00040	.00230
13.032	21.240	12592.	.00050	-.00050	.00280
12.989	23.380	12545.	-.00080	.00140	.00400
12.986	25.420	12545.	-.00080	.00270	.00520
	GRADIENT	-6.39364	-.00005	.00009	.00002

RUN NO. 39/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.699	-2.060	18913.	.00000	-.00030	.00150
19.686	-.960	18913.	-.00010	-.00030	.00150
19.666	.110	18913.	-.00020	-.00020	.00170
19.637	1.100	18913.	-.00030	-.00010	.00160
19.604	2.190	18865.	-.00020	.00020	.00170
19.601	3.300	18913.	-.00030	.00020	.00170
19.634	4.370	19008.	-.00020	.00030	.00180
19.620	6.560	19008.	-.00020	.00040	.00180
19.611	8.680	19008.	-.00020	.00050	.00190
19.584	10.900	18960.	.00010	.00060	.00180
19.597	13.080	19008.	-.00050	-.00100	.00200
19.578	15.280	18960.	-.00300	-.00190	.00210
19.617	17.490	19104.	-.00090	-.00010	.00240
19.591	19.640	19056.	.00030	.00000	.00270
19.551	21.820	19008.	.00000	.00040	.00330
19.581	23.980	19104.	-.00110	.00120	.00450
19.588	26.070	19104.	-.00090	.00160	.00610
	GRADIENT	8.10188	-.00003	.00011	.00004

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AMES 12-086 (LA65)

(KNC003) (18 APR 77)

REFERENCE DATA

SREF =	.0643 SQ. M.	XMRP =	.2304 M. XB
LREF =	.2550 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESWP =	25.000
FILSWP =	75.000	TESWP =	25.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 38/ 0 RN/L = 7.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.209	-2.140	24898.	.00010	-.00010	.00170
26.202	-1.050	24993.	.00000	.00000	.00150
26.196	.080	24993.	.00000	.00000	.00160
26.166	1.140	24945.	-.00010	.00010	.00160
26.199	2.270	25041.	.00000	.00010	.00160
26.153	3.400	24993.	.00000	.00020	.00180
26.156	4.420	25041.	-.00010	.00030	.00170
26.182	5.540	25137.	-.00010	.00020	.00170
26.163	6.660	25137.	-.00010	.00030	.00170
26.104	8.920	25041.	-.00010	.00040	.00180
26.113	11.150	25089.	-.00010	.00050	.00190
26.120	13.380	25137.	-.00140	-.00240	.00200
26.113	15.680	25137.	-.00340	-.00160	.00220
26.077	17.890	25089.	-.00040	-.00150	.00250
26.097	20.130	25185.	-.00070	-.00010	.00280
26.097	22.350	25185.	-.00130	.00180	.00360
25.986	24.510	25233.	-.00030	.00060	.00520
25.966	26.690	25233.	-.00140	.00110	.00640
	GRADIENT	15.55983	-.00002	.00006	.00002

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AMES 12-086 (LA65)

(KNC004) (18 APR 77)

REFERENCE DATA

SREF = .0597 SQ. M. XMRP = .1852 M. XB
 LREF = .2236 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 70.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 43/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.058	-2.060	12305.	.00000	.00030	.00220
13.032	-.990	12257.	.00000	.00040	.00230
13.072	.060	12353.	.00000	.00050	.00230
13.049	1.170	12353.	-.00010	.00060	.00230
13.049	2.220	12353.	.00000	.00060	.00230
13.032	3.320	12353.	-.00010	.00070	.00230
13.049	4.380	12353.	-.00020	.00060	.00220
13.032	6.520	12353.	-.00030	.00040	.00240
13.049	8.640	12401.	-.00050	.00010	.00240
13.032	10.800	12353.	-.00260	-.00260	.00260
13.019	13.000	12353.	-.00080	-.00110	.00270
13.016	15.150	12353.	-.00150	-.00030	.00290
13.012	17.320	12353.	-.00030	.00080	.00330
12.983	19.420	12305.	.00150	.00030	.00400
13.052	21.570	12449.	.00090	.00060	.00510
13.009	23.670	12401.	.00630	-.00160	.00640
13.035	25.710	12449.	-.00070	.00160	.00870
GRADIENT		11.11455	-.00003	.00005	-.00000

RUN NO. 50/ 0 RN/L = 5.92 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.453	-2.150	18673.	-.00010	.00010	.00290
19.443	-1.060	18673.	-.00010	.00020	.00290
19.469	.040	18721.	-.00020	.00020	.00300
19.502	1.180	18769.	-.00030	-.00010	.00290
19.483	2.290	18769.	-.00040	.00010	.00290
19.469	3.430	18721.	-.00040	.00010	.00300
19.453	4.530	18721.	-.00040	.00010	.00310
19.443	6.690	18721.	-.00040	.00020	.00300
19.427	8.940	18721.	-.00060	.00000	.00310
19.420	11.180	18721.	-.00290	-.00200	.00330
19.414	13.420	18673.	-.00090	-.00150	.00350
19.450	15.690	18769.	-.00360	-.00100	.00360
19.430	17.960	18721.	-.00080	.00040	.00410
19.391	20.170	18673.	-.00040	.00010	.00490
19.401	22.300	18721.	-.00130	.00100	.00620
19.391	24.390	18721.	.00070	.00010	.00830
19.384	26.450	18673.	.00150	-.00070	.01020
GRADIENT		9.15836	-.00005	-.00001	.00002

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AMES 12-086 (LA65)

(KNC004) (18 APR 77)

REFERENCE DATA

SREF =	.0597 SQ. M.	XMRP =	.1952 M. XB
LREF =	.2236 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESWP =	25.000
FILSWP =	70.000	TESWP =	25.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 49/ 0 RN/L = 7.93 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.048	-2.250	24515.	.00000	.00000	.00280
26.031	-1.110	24562.	.00000	-.00010	.00290
26.064	.020	24610.	-.00010	.00000	.00280
26.094	1.220	24706.	-.00010	.00000	.00290
26.031	2.370	24610.	-.00020	.00010	.00280
26.041	3.510	24658.	-.00030	.00010	.00290
26.094	4.650	24802.	-.00020	.00010	.00290
26.081	6.980	24802.	-.00030	.00020	.00300
26.018	9.280	24706.	-.00040	-.00010	.00290
26.074	11.560	24850.	-.00240	-.00150	.00300
26.084	13.910	24898.	-.00070	-.00110	.00330
26.035	16.250	24802.	-.00390	-.00200	.00370
26.005	18.590	24802.	-.00280	.00010	.00420
25.953	20.850	24706.	-.00100	.00050	.00520
26.002	23.120	24850.	-.00050	.00100	.00650
26.018	25.180	24898.	-.00090	.00120	.00860
26.005	27.370	24898.	.00000	.00090	.01030
	GRADIENT	32.59937	-.00004	.00002	.00001

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AMES 12-086 (LA65)

(KNC005) (18 APR 77)

REFERENCE DATA

SREF =	.0569 SQ. M.	XMRP =	.1566 M. XB
LREF =	.2055 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESWP =	25.000
FILSWP =	65.000	TESWP =	25.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 48/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.049	-2.100	12305.	.00030	-.00040	.00310
13.042	-1.030	12305.	.00020	-.00040	.00310
13.068	.050	12401.	.00020	-.00020	.00300
13.075	1.180	12401.	.00020	-.00010	.00300
13.058	2.240	12401.	.00020	-.00010	.00310
13.052	3.360	12401.	.00020	-.00010	.00310
13.029	4.430	12353.	.00020	-.00020	.00330
13.026	6.590	12353.	.00010	-.00020	.00320
13.022	8.720	12353.	-.00010	-.00090	.00330
13.029	10.900	12401.	.00060	-.00020	.00330
13.029	13.130	12401.	-.00040	-.00030	.00340
13.019	15.330	12401.	-.00080	.00020	.00400
13.032	17.440	12449.	-.00120	.00050	.00470
13.006	19.560	12401.	-.00500	.00190	.00560
12.999	21.730	12353.	-.00630	.00300	.00680
12.996	23.820	12353.	-.00180	.00190	.00860
13.019	25.890	12449.	-.00040	.00120	.01050
GRADIENT		10.96274	-.00001	.00004	.00002

RUN NO. 47/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.604	-2.210	18577.	.00040	-.00030	.00330
19.647	-1.010	18721.	.00040	-.00030	.00330
19.637	.020	18721.	.00020	-.00030	.00340
19.660	1.170	18769.	.00020	-.00030	.00330
19.620	2.320	18721.	.00020	-.00010	.00340
19.588	3.480	18673.	.00020	-.00010	.00330
19.620	4.530	18721.	.00020	-.00010	.00340
19.594	6.860	18721.	.00000	-.00030	.00340
19.581	9.110	18721.	-.00040	-.00120	.00350
19.607	11.390	18769.	.00030	-.00120	.00380
19.617	13.700	18817.	-.00010	-.00010	.00400
19.634	16.000	18865.	.00000	.00010	.00430
19.614	18.230	18817.	-.00090	.00050	.00500
19.591	20.380	18817.	-.00340	.00160	.00620
19.591	22.520	18817.	-.00390	.00230	.00800
19.578	24.630	18817.	-.00120	.00130	.01010
19.581	26.740	18817.	-.00040	.00070	.01180
GRADIENT		10.64050	-.00003	.00004	.00001

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AMES 12-086 (LA65)

(KNC005) (18 APR 77)

REFERENCE DATA

SREF =	.0569 SQ. M.	XMRP =	.1566 M. XB
LREF =	.2055 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESWP =	25.000
FILSWP =	65.000	TESWP =	25.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 46/ 0 RN/L = 7.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.291	-2.340	24945.	.00040	.00010	.00340
26.255	-1.100	24898.	.00040	.00000	.00340
26.232	.050	24898.	.00030	.00000	.00350
26.199	1.210	24850.	.00040	.00000	.00340
26.182	2.400	24850.	.00040	.00000	.00340
26.225	3.570	24945.	.00040	.00010	.00350
26.196	4.740	24898.	.00030	-.00020	.00330
26.215	7.130	24945.	.00000	-.00030	.00360
26.159	9.470	24898.	-.00090	-.00130	.00350
26.222	11.980	25041.	-.00010	-.00200	.00370
26.196	14.300	24993.	.00040	-.00020	.00390
26.186	16.610	24993.	.00040	-.00010	.00450
26.133	18.990	24945.	-.00090	.00040	.00540
26.136	21.270	24945.	-.00180	.00090	.00660
26.136	23.280	24993.	-.00330	.00210	.00870
26.091	25.480	24945.	-.00020	.00040	.01110
26.222	27.670	25233.	.00010	.00030	.01220
	GRADIENT	-2.94222	-.00001	-.00002	-.00001

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AMES 12-086 (LA65)

(KNC008) (18 APR 77)

REFERENCE DATA

SREF =	.0549 SQ. M.	XMRP =	.1366 M. XB
LREF =	.1936 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESHP =	25.000
FILSHP =	60.000	TESHP =	25.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 51/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.081	-2.100	12162.	.00050	.00000	.00230
13.098	-.970	12305.	.00030	-.00010	.00260
13.075	.060	12257.	.00020	-.00010	.00270
13.062	1.150	12257.	.00020	.00000	.00270
13.035	2.170	12209.	.00020	-.00010	.00280
13.075	4.320	12305.	.00010	-.00010	.00280
13.072	6.500	12305.	.00020	-.00010	.00270
13.111	8.590	12401.	.00010	-.00010	.00280
13.114	10.650	12401.	-.00100	-.00150	.00300
13.091	12.840	12353.	.00120	.00090	.00320
13.094	14.960	12401.	.00290	-.00090	.00360
13.108	16.990	12401.	.00120	-.00120	.00450
13.085	18.990	12401.	-.00080	.00030	.00610
13.075	21.090	12353.	.00020	.00000	.00770
13.055	23.120	12353.	-.00160	.00100	.00870
13.055	25.160	12353.	-.00380	.00160	.01130
GRADIENT		11.12510	-.00005	-.00001	.00007

RUN NO. 53/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.607	-2.080	18721.	.00030	.00040	.00330
19.581	-.020	18721.	.00020	.00040	.00320
19.519	1.130	18721.	.00020	.00040	.00320
19.597	2.250	18913.	.00010	.00040	.00320
19.640	3.320	19008.	.00020	.00040	.00330
19.656	4.370	19056.	.00010	.00050	.00330
19.637	6.620	19056.	.00010	.00040	.00330
19.666	8.840	19152.	.00010	.00030	.00330
19.614	11.050	19056.	-.00150	-.00140	.00350
19.630	13.270	19152.	.00070	.00060	.00360
19.578	15.400	19056.	.00060	.00030	.00410
19.588	17.470	19104.	.00260	-.00090	.00530
19.588	19.530	19104.	.00040	-.00030	.00680
19.581	21.590	19152.	.00080	.00010	.00830
19.617	23.650	19248.	-.00220	.00220	.00980
19.574	25.720	19200.	-.00490	.00230	.01270
GRADIENT		59.63289	-.00003	.00001	.00000

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AMES 12-086 (LA65)

(KNC006) (18 APR 77)

REFERENCE DATA

SREF =	.0549 SQ. M.	XMRP =	.1366 M. XB
LREF =	.1936 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESWP =	25.000
FILSWP =	60.000	TESWP =	25.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 52/ 0 RN/L = 7.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.248	-2.190	24562.	.00030	.00020	.00280
26.215	-1.090	24562.	.00030	.00030	.00280
26.166	.080	24515.	.00020	.00030	.00290
26.209	1.240	24658.	.00020	.00020	.00280
26.110	2.330	24515.	.00010	.00030	.00280
26.123	3.480	24562.	.00020	.00030	.00270
26.163	4.560	24754.	.00020	.00030	.00300
26.133	6.830	24754.	.00020	.00030	.00280
26.120	9.090	24754.	.00020	.00040	.00300
26.054	11.360	24658.	-.00130	-.00120	.00310
26.038	13.650	24706.	-.00030	-.00040	.00340
26.077	15.830	24850.	-.00040	.00050	.00390
26.002	17.930	24802.	-.00170	.00120	.00490
25.946	20.010	24706.	-.00140	.00110	.00620
25.989	22.030	24850.	.00330	-.00140	.00870
25.963	24.150	24802.	-.00290	.00260	.00940
25.949	26.180	24850.	-.00310	.00140	.01190
	GRADIENT	18.08277	-.00002	.00001	.00001

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AMES 12-086 (LA65)

(KNC007) (18 APR 77)

REFERENCE DATA

SREF =	.0535 SQ. M.	XMRP =	.1215 M. XB
LREF =	.1852 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

T/C =	.080	LESHP =	25.000
FILSHP =	55.000	TESHP =	25.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 56/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.049	-2.070	12545.	.00000	-.00020	.00330
13.065	-1.040	12592.	.00000	-.00020	.00320
13.042	.050	12592.	-.00010	-.00020	.00340
13.019	1.130	12545.	-.00010	.00000	.00340
13.029	2.180	12592.	-.00010	.00000	.00340
12.999	3.280	12545.	-.00010	.00000	.00330
13.101	4.340	12736.	-.00010	.00020	.00330
13.101	6.510	12784.	.00000	.00020	.00340
13.098	8.640	12784.	.00000	.00030	.00340
13.088	10.780	12736.	-.00010	.00030	.00350
13.108	12.960	12784.	-.00040	.00020	.00350
13.091	15.060	12784.	-.00030	.00040	.00420
13.065	17.110	12736.	-.00250	.00100	.00520
13.068	19.120	12736.	-.00270	.00230	.00660
13.032	21.130	12688.	-.00030	.00100	.00800
13.072	23.190	12784.	.00050	.00010	.00850
13.068	25.290	12784.	.00100	.00000	.01120
GRADIENT		15.90834	-.00002	.00006	.00001

RUN NO. 55/ 0 RN/L = 5.91 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.460	-2.160	19104.	.00010	.00010	.00350
19.466	-1.080	19152.	.00010	.00020	.00360
19.456	.030	19152.	.00010	.00020	.00360
19.440	1.160	19152.	.00000	.00020	.00380
19.424	2.270	19104.	.00000	.00030	.00360
19.381	3.360	19056.	.00010	.00030	.00360
19.420	4.450	19152.	.00000	.00020	.00360
19.414	6.730	19152.	.00000	.00020	.00360
19.450	8.920	19200.	.00000	.00030	.00370
19.394	11.160	19104.	.00000	.00030	.00370
19.404	13.420	19152.	-.00010	.00040	.00370
19.384	15.540	19104.	-.00010	.00050	.00450
19.341	17.640	19056.	.00070	-.00090	.00540
19.335	19.690	19056.	.00060	-.00110	.00660
19.361	21.650	19104.	.00500	-.00420	.00900
19.361	23.700	19104.	.00270	-.00170	.00970
19.358	25.780	19152.	.00060	.00010	.01180
GRADIENT		-3.13676	-.00001	.00002	.00001

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AMES 12-086 (LA65)

(KNC007) (18 APR 77)

REFERENCE DATA

SREF	=	.0535 SQ. M.	XMRP	=	.1215 M. XB
LREF	=	.1852 METERS	YMRP	=	.0000 M. YB
BREF	=	.3331 METERS	ZMRP	=	.0000 M. ZB
SCALE	=	.0000			

PARAMETRIC DATA

T/C	=	.080	LESWP	=	25.000
FILSWP	=	55.000	TESWP	=	25.000
BETA	=	.000	MACH	=	.300
GRITNO	=	120.000			

RUN NO. 54/ 0 RN/L = 7.88 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
25.933	-2.230	25376.	.00020	.00030	.00350
25.920	-1.140	25424.	.00010	.00040	.00370
25.894	.000	25376.	.00020	.00040	.00370
25.900	1.130	25472.	.00010	.00040	.00360
25.894	2.270	25520.	.00010	.00040	.00380
25.890	3.440	25520.	.00020	.00050	.00350
25.831	4.600	25472.	.00020	.00060	.00370
25.854	6.930	25568.	.00010	.00040	.00350
25.772	9.210	25424.	.00010	.00060	.00370
25.805	11.580	25520.	.00010	.00060	.00370
25.802	13.870	25520.	.00230	.00260	.00390
25.792	16.080	25520.	.00140	.00020	.00440
25.766	18.090	25520.	.00070	.00040	.00560
25.900	20.180	25807.	.00330	-.00150	.00690
25.812	22.180	25664.	.00740	-.00460	.00910
25.776	24.270	25616.	.00180	-.00120	.01040
25.808	26.390	25712.	.00000	-.00010	.01190
	GRADIENT	19.43048	.00000	.00003	.00001

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AMES 12-088 (LA65)

(KNC008) (18 APR 77)

REFERENCE DATA

SREF =	.0515 SQ. M.	XMRP =	.0999 M. XB
LREF =	.1739 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESMP =	25.000
FILSMP =	45.000	TESMP =	25.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 59/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.098	-2.120	12640.	.00030	.00030	.00360
13.098	-1.030	12640.	.00030	.00020	.00370
13.101	.030	12688.	.00030	.00020	.00370
13.062	1.140	12592.	.00030	.00030	.00390
13.039	2.220	12545.	.00030	.00030	.00370
13.072	3.320	12640.	.00040	.00040	.00370
13.072	6.540	12736.	.00050	.00050	.00380
13.072	8.680	12736.	.00070	.00040	.00380
13.068	10.930	12736.	.00080	.00030	.00380
13.045	13.060	12736.	.00270	.00350	.00400
13.042	15.220	12736.	.01010	.00670	.00420
13.022	17.200	12688.	.00180	.00010	.00540
13.022	19.280	12688.	-.00070	.00120	.00640
13.016	21.300	12688.	.00170	-.00010	.00760
13.042	23.340	12736.	.00030	.00050	.00970
13.019	25.330	12688.	.00940	-.00310	.01370
GRADIENT -10.09532			.00001	.00002	.00002

RUN NO. 58/ 0 RN/L = 5.92 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.473	-2.190	19008.	.00050	.00020	.00410
19.515	-1.070	19152.	.00020	.00010	.00400
19.469	.060	19152.	.00020	.00020	.00390
19.473	1.160	19152.	.00020	.00020	.00390
19.410	3.450	19104.	.00030	.00030	.00410
19.466	4.470	19200.	.00030	.00030	.00410
19.446	6.740	19152.	.00050	.00020	.00400
19.476	9.010	19248.	.00060	.00020	.00410
19.466	11.350	19248.	.00070	.00030	.00400
19.476	13.580	19248.	.00080	.00020	.00400
19.450	15.800	19200.	.01170	.00640	.00440
19.397	17.790	19152.	.00440	-.00060	.00590
19.371	19.800	19104.	-.01130	.00890	.00790
19.361	21.810	19104.	-.00670	.00560	.00950
19.420	23.970	19248.	-.00050	.00140	.01090
19.371	25.920	19152.	.01090	-.00420	.01400
GRADIENT 15.09006			-.00001	.00002	.00001

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AMES 12-086 (LA65)

(KNC008) (18 APR 77)

REFERENCE DATA

SREF = .0515 SQ. M. XMRP = .0999 M. X8
 LREF = .1739 METERS YMRP = .0000 M. Y8
 BREF = .3331 METERS ZMRP = .0000 M. Z8
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESHP = 25.000
 FILSHP = 45.000 TESHP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 57/ 0 RN/L = 7.92 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.002	-2.280	24945.	.00020	.00030	.00430
26.074	-1.150	25089.	.00030	.00020	.00420
26.113	.000	25185.	.00020	.00020	.00410
26.038	1.170	25281.	.00030	.00020	.00430
26.051	2.330	25376.	.00030	.00020	.00420
26.005	3.500	25281.	.00030	.00020	.00430
26.002	4.620	25329.	.00030	.00030	.00430
26.012	7.050	25329.	.00040	.00020	.00420
26.031	9.360	25424.	.00050	.00020	.00410
25.986	11.790	25568.	.00040	.00000	.00410
25.963	14.220	25520.	.00050	.00000	.00410
25.936	16.450	25520.	.00730	.00290	.00470
25.936	18.440	25520.	.01010	-.00350	.00570
25.884	20.350	25424.	.00780	-.00400	.00790
25.933	22.220	25568.	.00040	.00060	.00880
25.858	24.500	25424.	.00250	-.00040	.01080
25.887	26.610	25520.	.00470	-.00170	.01440
GRADIENT		53.27873	.00001	.00000	.00001

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AMES 12-086 (LA65)

(KNC009) (18 APR 77)

REFERENCE DATA

SREF = .0501 SQ. M. XMRP = .0845 M. XB
 LREF = .1664 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 35.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 62/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.049	-2.110	12305.	.00010	.00100	.00370
13.029	-1.020	12305.	.00000	.00080	.00370
13.055	.090	12353.	.00010	.00100	.00390
13.022	1.120	12305.	.00010	.00090	.00390
13.042	2.190	12353.	.00010	.00090	.00380
13.039	3.330	12353.	.00010	.00100	.00390
13.022	4.370	12353.	.00010	.00100	.00390
13.016	5.430	12353.	.00020	.00100	.00370
13.026	6.610	12401.	.00020	.00120	.00380
13.029	8.730	12401.	.00030	.00110	.00370
13.029	10.890	12401.	.00030	.00090	.00390
13.026	13.080	12401.	-.00200	-.00210	.00380
13.019	15.220	12401.	.00210	.00090	.00460
12.996	17.230	12353.	.00590	-.00200	.00570
12.970	19.280	12305.	.00430	-.00050	.00740
12.986	21.290	12353.	.00420	-.00070	.00930
12.963	23.290	12353.	.00890	-.00350	.01350
12.967	25.310	12353.	.02020	-.00790	.01720
	GRADIENT	7.95364	.00001	.00001	.00003

RUN NO. 61/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.643	-2.180	18673.	.00010	.00070	.00430
19.620	-1.110	18673.	.00010	.00070	.00410
19.627	.080	18673.	.00000	.00070	.00420
19.614	1.190	18673.	.00010	.00080	.00410
19.696	2.300	18865.	.00000	.00070	.00400
19.676	4.540	18865.	.00020	.00080	.00410
19.643	6.810	18817.	.00020	.00070	.00410
19.634	9.080	18817.	.00030	.00070	.00400
19.640	11.360	18865.	.00020	.00080	.00400
19.614	13.640	18817.	-.00290	-.00330	.00420
19.617	15.900	18817.	.00980	.00360	.00470
19.584	17.980	18769.	.01890	-.00380	.00560
19.561	20.040	18769.	.01500	-.00510	.00750
19.538	21.990	18721.	.00400	-.00030	.00940
19.624	24.060	18913.	.00030	.00010	.01320
19.607	25.970	18865.	.02340	-.00950	.01790
	GRADIENT	34.04915	.00001	.00001	-.00003

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AMES 12-086 (LA65)

(KNC009) (18 APR 77)

REFERENCE DATA

SREF =	.0501 SQ. M.	XMRP =	.0845 M. XB
LREF =	.1664 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESMP =	25.000
FILSWP =	35.000	TESMP =	25.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 60/ 0 RN/L = 7.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.156	-2.290	24658.	.00010	.00050	.00400
26.140	-1.120	24706.	.00010	.00050	.00420
26.140	.040	24706.	.00010	.00040	.00420
26.094	1.210	24706.	.00010	.00060	.00420
26.051	2.370	24610.	.00010	.00050	.00420
26.081	3.590	24706.	.00020	.00040	.00420
26.054	4.700	24658.	.00020	.00040	.00420
26.054	7.140	24706.	.00020	.00040	.00410
26.084	9.420	24802.	.00030	.00060	.00400
26.077	11.930	24802.	.00020	.00040	.00400
26.048	14.210	24754.	.00010	.00030	.00420
26.015	16.580	24754.	.00670	.00330	.00460
26.018	18.670	24802.	.01480	-.00390	.00560
25.966	20.730	24706.	.00790	-.00300	.00710
25.917	22.650	24658.	.00200	-.00050	.00920
25.940	24.720	24706.	.00190	-.00020	.01240
25.992	26.730	24850.	-.01980	.00900	.01810
	GRADIENT	-2.87084	.00002	-.00001	.00002

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AMES 12-086 (LA65)

(KNC010) (18 APR 77)

REFERENCE DATA

SREF =	.0490 SQ. M.	XMRP =	.0878 M. XB
LREF =	.1649 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESMP =	35.000
FILSMP =	35.000	TESMP =	20.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 25/ 0 RN/L = 1.89 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
6.260	-2.030	6033.	.00010	.00110	.00370
6.240	-.960	5985.	.00000	.00080	.00380
6.244	.070	6033.	.00000	.00050	.00370
6.237	1.120	6033.	.00000	.00070	.00380
6.227	2.150	5985.	.00020	.00100	.00380
6.221	3.190	5985.	.00010	.00100	.00390
6.221	4.250	6033.	.00020	.00090	.00370
6.214	6.350	5985.	.00020	.00110	.00380
6.211	8.420	5985.	.00020	.00090	.00380
6.211	10.520	5985.	.00040	.00110	.00400
6.204	12.610	5985.	.00020	.00070	.00410
6.214	14.690	6033.	-.00020	.00080	.00460
6.204	16.750	6033.	-.00030	.00050	.00530
6.201	18.740	6033.	.00000	.00060	.00630
6.188	20.730	5985.	.00050	.00010	.00850
6.195	22.790	6033.	.00150	-.00010	.01190
6.185	24.730	5985.	-.01870	.00840	.01920
GRADIENT		-1.63520	.00002	.00001	.00001

RUN NO. 24/ 0 RN/L = 3.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
12.986	-2.090	12545.	.00010	.00010	.00440
12.963	-1.040	12545.	.00010	.00000	.00440
12.980	.060	12640.	.00000	.00030	.00440
12.950	1.160	12592.	.00010	-.00010	.00450
12.944	2.270	12592.	.00010	.00000	.00450
12.924	3.310	12592.	.00010	.00010	.00450
12.960	4.410	12640.	.00000	.00000	.00460
12.937	6.580	12688.	.00000	.00000	.00450
12.924	8.760	12688.	.00020	.00050	.00450
12.921	10.950	12688.	.00060	.00060	.00460
12.944	13.120	12736.	.00080	.00030	.00480
12.924	15.240	12736.	-.00070	.00020	.00540
12.904	17.300	12688.	.00020	.00000	.00590
12.927	19.350	12736.	.00010	-.00020	.00720
12.930	21.420	12784.	.00060	-.00030	.00990
12.940	23.400	12784.	.00060	.00020	.01330
12.917	25.370	12784.	-.01500	.00620	.01870
GRADIENT		11.01715	-.00001	-.00001	.00003

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AMES 12-088 (LA65)

(KNC010) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .0878 M. XB
 LREF = .1649 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESHP = 35.000
 FILSHP = 35.000 TESHP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 23/ 0 RN/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSH)	CSL	CLN	CPCAV
19.620	-2.220	19056.	.00020	.00000	.00450
19.548	-1.090	18960.	.00030	.00000	.00480
19.538	.050	19008.	.00020	-.00010	.00470
19.574	1.160	19104.	.00010	-.00010	.00480
19.588	2.300	19152.	.00010	-.00010	.00470
19.568	3.410	19152.	.00010	-.00020	.00460
19.519	4.550	19056.	.00020	-.00010	.00480
19.555	6.830	19152.	.00010	-.00020	.00480
19.522	9.140	19200.	.00030	.00010	.00450
19.515	11.400	19200.	.00060	.00020	.00460
19.565	13.680	19344.	.00190	.00060	.00480
19.519	15.850	19248.	.00280	-.00040	.00530
19.515	17.930	19296.	.00210	-.00080	.00640
19.483	19.960	19248.	.00200	-.00150	.00780
19.486	21.980	19248.	.00030	-.00030	.01070
19.502	24.030	19296.	-.00080	.00070	.01460
19.463	25.930	19248.	-.02070	.00860	.01960
GRADIENT	16.66124		-.00002	-.00002	.00002

RUN NO. 22/ 0 RN/L = 7.93 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSH)	CSL	CLN	CPCAV
26.094	-2.310	25137.	.00020	-.00040	.00460
26.028	-1.150	25041.	.00010	-.00030	.00480
26.068	.020	25185.	.00020	-.00030	.00480
26.038	1.180	25185.	.00010	-.00030	.00480
26.074	2.330	25281.	.00020	-.00030	.00470
26.064	3.510	25329.	.00010	-.00010	.00470
26.091	4.710	25424.	.00020	-.00010	.00460
25.976	7.080	25329.	.00020	.00000	.00440
26.071	9.470	25568.	.00050	.00040	.00440
26.051	11.860	25568.	.00080	.00120	.00450
26.048	14.270	25568.	.00260	.00090	.00470
25.982	16.480	25472.	.00170	-.00030	.00550
25.976	18.610	25568.	.00330	-.00120	.00640
25.959	20.590	25664.	.00030	.00000	.00750
25.982	22.660	25807.	-.00120	.00100	.01130
25.907	24.760	25664.	-.00150	.00120	.01410
25.986	26.600	25855.	.01530	-.00590	.01950
GRADIENT	46.91096		.00000	.00004	-.00001

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AMES 12-086 (LA65)

(KNC011) (18 APR 77)

REFERENCE DATA

SREF = .0723 SQ. M. XMRP = .3162 M. XB
 LREF = .3215 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 80.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 65/ 0 RN/L = 3.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
12.917	-2.070	12736.	.00020	-.00050	.00240
12.878	-.960	12688.	.00020	-.00040	.00260
12.986	.050	12784.	.00010	-.00020	.00220
12.924	1.120	12640.	.00010	.00000	.00260
12.953	2.190	12736.	.00010	.00010	.00240
12.940	3.250	12688.	.00010	.00030	.00250
12.930	4.340	12688.	.00010	.00030	.00240
12.950	6.520	12736.	.00010	.00020	.00230
12.911	8.630	12640.	.00020	.00060	.00250
12.944	10.860	12736.	.00030	.00040	.00270
12.937	13.040	12736.	.00010	.00020	.00270
12.921	15.250	12688.	.00000	.00050	.00280
12.950	17.470	12736.	.00050	.00070	.00280
12.891	19.720	12640.	.00130	-.00110	.00310
12.927	21.930	12736.	.00220	-.00210	.00340
12.970	24.230	12784.	.00250	-.00220	.00340
12.934	26.430	12736.	.00180	-.00200	.00400
GRADIENT		-6.48678	-.00002	.00014	.00000

RUN NO. 64/ 0 RN/L = 5.92 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.604	-2.160	19487.	.00020	-.00020	.00170
19.594	-1.030	19535.	.00020	-.00010	.00170
19.506	.050	19487.	.00020	.00000	.00190
19.548	1.140	19631.	.00020	.00010	.00160
19.492	2.250	19535.	.00010	.00020	.00170
19.591	3.390	19535.	.00020	.00040	.00170
19.650	4.530	19535.	.00020	.00030	.00210
19.604	6.720	19531.	.00020	.00050	.00190
19.295	9.030	19487.	.00020	.00050	.00240
19.276	11.320	19487.	.00020	.00020	.00270
19.276	13.610	19487.	.00030	.00000	.00270
19.273	15.890	19487.	.00000	.00020	.00250
19.266	18.250	19487.	.00060	.00000	.00270
19.469	20.650	19579.	.00220	-.00200	.00250
19.237	23.010	19439.	.00320	-.00290	.00320
19.339	25.350	19531.	.00250	-.00300	.00320
19.299	27.690	19535.	.00150	-.00220	.00360
GRADIENT		10.78135	-.00000	.00009	.00003

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AMES 12-086 (LA65)

(KNC011) (18 APR 77)

REFERENCE DATA

PARAMETRIC DATA

SREF =	.0723 SQ. M.	XMRP =	.3162 M. XB
LREF =	.3215 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

T/C =	.080	LESHP =	35.000
FILSWP =	80.000	TESHP =	20.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 63/ 0 RN/L = 7.83 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.002	-2.240	24275.	.00030	.00020	.00200
26.015	-1.130	24323.	.00020	.00030	.00200
25.972	.030	24275.	.00020	.00040	.00200
25.972	1.220	24323.	.00010	.00050	.00210
25.959	2.340	24323.	.00020	.00050	.00200
25.903	3.430	24227.	.00020	.00050	.00200
25.890	4.650	24275.	.00020	.00050	.00210
25.864	6.930	24275.	.00030	.00080	.00210
25.894	8.130	24371.	.00030	.00090	.00200
25.874	9.240	24323.	.00030	.00100	.00220
26.169	11.690	24933.	.00020	.00020	.00190
25.310	14.140	25281.	.00020	-.00020	.00240
25.310	16.550	25329.	-.00060	.00020	.00210
25.162	18.980	25089.	.00060	-.00090	.00250
25.214	21.530	25281.	.00210	-.00230	.00260
25.280	24.010	25472.	.00330	-.00350	.00280
25.339	26.500	25664.	.00210	-.00230	.00290
25.405	28.950	25807.	.00280	-.00170	.00330
	GRADIENT	-4.36582	-.00001	.00004	.00001

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AMES 12-086 (LA65)

(KNC012) (18 APR 77)

REFERENCE DATA

SREF	=	.0634 SQ. M.	XMRP	=	.2322 M. XB
LREF	=	.2542 METERS	YMRP	=	.0000 M. YB
BREF	=	.3331 METERS	ZMRP	=	.0000 M. ZB
SCALE	=	.0000			

PARAMETRIC DATA

T/C	=	.080	LESWP	=	35.000
FILSWP	=	75.000	TESWP	=	20.000
BETA	=	.000	MACH	=	.300
GRITNO	=	120.000			

RUN NO. 66/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.081	-2.050	12353.	.00030	-.00050	.00160
13.052	-1.010	12305.	.00020	-.00040	.00170
13.035	.060	12305.	.00020	-.00030	.00190
13.035	1.190	12305.	.00030	-.00010	.00180
13.042	2.220	12353.	.00020	-.00010	.00190
13.052	3.260	12353.	.00030	.00000	.00180
13.045	4.250	12353.	.00020	.00010	.00190
13.019	6.440	12305.	.00030	.00010	.00200
13.019	8.480	12305.	.00040	.00080	.00210
13.026	10.560	12353.	.00040	.00100	.00220
13.029	12.720	12353.	.00090	.00050	.00230
13.062	14.810	12449.	.00040	.00010	.00240
13.029	16.950	12401.	.00070	.00010	.00240
13.009	19.100	12353.	.00060	.00020	.00240
12.999	21.220	12353.	.00030	.00030	.00250
12.993	23.330	12353.	-.00140	.00110	.00310
12.970	25.370	12305.	-.00330	.00350	.00560
	GRADIENT	4.82526	-.00000	.00009	.00004

RUN NO. 67/ 0 RN/L = 5.87 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.309	-2.040	18721.	.00030	-.00010	.00200
19.309	-.910	18721.	.00030	.00000	.00210
19.269	.040	18673.	.00020	.00010	.00220
19.263	1.150	18673.	.00020	.00020	.00220
19.269	2.210	18721.	.00030	.00040	.00220
19.299	3.270	18721.	.00020	.00040	.00220
19.325	4.300	18917.	.00020	.00030	.00230
19.299	6.490	18769.	.00030	.00040	.00220
19.325	8.640	18917.	.00040	.00070	.00230
19.282	10.800	18769.	.00070	.00270	.00250
19.286	13.000	18817.	.00140	.00140	.00270
19.250	15.180	18721.	.00070	.00090	.00280
19.253	17.400	18769.	.00100	.00010	.00280
19.227	19.610	18721.	.00090	-.00010	.00290
19.181	21.800	18673.	.00030	-.00020	.00310
19.187	23.950	18673.	-.00120	.00000	.00390
19.214	25.970	18721.	-.00140	.00010	.00650
	GRADIENT	11.37448	-.00001	.00009	.00004

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AMES 12-086 (LA65)

(KNC012) (18 APR 77)

REFERENCE DATA

SREF	■	.0634 SQ. M.	XMRP	■	.2322 M. XB
L.F	■	.2542 METERS	YMRP	■	.0000 M. YB
BREF	■	.3331 METERS	ZMRP	■	.0000 M. ZB
SCALE	■	.0000			

PARAMETRIC DATA

T/C	■	.080	LESWP	■	35.000
FILSWP	■	75.000	TESWP	■	20.000
BETA	■	.000	MACH	■	.300
GRITNO	■	120.000			

RUN NO. 68/ 0 RN/L = 7.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.222	-2.140	25424.	.00030	-.00020	.00210
26.248	-1.050	25472.	.00020	-.00010	.00220
26.232	.030	25472.	.00020	-.00010	.00220
26.205	1.180	25424.	.00020	-.00010	.00230
26.182	2.270	25376.	.00010	.00000	.00230
26.192	3.330	25424.	.00010	.00000	.00230
26.166	4.420	25424.	.00010	.00010	.00240
26.159	6.690	25424.	.00020	.00010	.00230
26.127	8.850	25376.	.00010	.00030	.00240
26.012	11.110	25616.	.00070	.00400	.00260
26.015	13.360	25654.	.00200	.00200	.00290
26.002	15.610	25654.	.00030	.00040	.00290
25.963	17.880	25569.	-.00050	.00030	.00300
26.048	20.220	25759.	-.00030	-.00020	.00300
26.018	22.450	25712.	.00000	-.00070	.00330
25.972	24.630	25654.	-.00210	-.00040	.00440
25.966	26.670	25654.	-.00350	.00180	.00700
	GRADIENT	-6.32121	-.00003	.00004	.00004

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AMES 12FT 086-1-12 (LA65) SHIPS II

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AMES 12-086 (LA65)

(KNC013) (18 APR 77)

REFERENCE DATA

SREF =	.0586 SQ. M.	XMRP =	.1875 M. XB
LREF =	.2225 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESWP =	35.000
FILSWP =	70.000	TESWP =	20.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 71/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.078	-2.060	12497.	.00030	.00040	.00290
13.058	-1.040	12449.	.00030	.00040	.00290
13.052	.050	12449.	.00030	.00060	.00300
13.075	1.150	12497.	.00040	.00070	.00290
13.055	2.240	12497.	.00030	.00080	.00300
13.065	3.290	12497.	.00020	.00060	.00300
13.035	4.340	12449.	.00020	.00060	.00310
13.094	5.460	12545.	.00020	.00050	.00310
13.088	6.490	12592.	.00020	.00060	.00300
13.091	8.620	12592.	.00030	.00090	.00310
13.091	10.820	12592.	.00050	.00110	.00320
13.091	13.040	12592.	.00090	.00060	.00340
13.058	15.130	12545.	.00090	.00080	.00360
13.055	17.290	12545.	.00030	.00100	.00390
13.045	19.490	12545.	.00030	.00110	.00430
13.052	21.590	12592.	-.00120	.00200	.00540
13.055	23.630	12592.	.00190	.00070	.00740
13.039	25.670	12545.	.00220	.00000	.00950
	GRADIENT	.09758	-.00002	.00004	.00003

RUN NO. 70/ 0 RN/L = 5.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.512	-2.100	18577.	.00030	.00040	.00290
19.515	-1.050	18577.	.00030	.00040	.00300
19.499	.030	18577.	.00030	.00050	.00310
19.496	1.190	18525.	.00030	.00050	.00310
19.555	2.260	18721.	.00030	.00060	.00310
19.525	3.400	18673.	.00030	.00070	.00300
19.496	4.470	18673.	.00020	.00070	.00320
19.515	6.710	18721.	.00030	.00080	.00320
19.486	8.900	18673.	.00040	.00120	.00320
19.496	11.160	18721.	.00070	.00170	.00330
19.489	13.370	18721.	.00070	.00100	.00370
19.486	15.670	18721.	.00090	.00080	.00370
19.473	17.930	18721.	-.00050	.00120	.00400
19.522	20.160	18817.	-.00010	.00080	.00460
19.489	22.360	18817.	.00090	.00050	.00590
19.515	24.460	18955.	.00340	-.00120	.00800
19.499	26.540	18955.	.00250	-.00080	.01020
	GRADIENT	20.19833	-.00001	.00005	.00003

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AMES 12-086 (LA65)

(KNC013) (18 APR 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = .0586 SQ. M. XMRP = .1875 M. XB
 LREF = .2225 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

T/C = .080 LESHP = 35.000
 FILSHP = 70.000 TESHP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 69/ 0 RN/L = 7.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.251	-2.260	24898.	.00030	.00040	.00300
26.205	-1.100	24850.	.00030	.00050	.00310
26.218	.040	24898.	.00030	.00050	.00290
26.222	1.200	24945.	.00030	.00060	.00310
26.199	2.370	24945.	.00030	.00060	.00300
26.182	3.510	24898.	.00030	.00060	.00300
26.166	4.610	24633.	.00030	.00050	.00310
26.143	6.980	24838.	.00020	.00070	.00310
26.130	9.190	24898.	.00030	.00110	.00320
26.130	11.540	24945.	.00060	.00170	.00330
26.127	13.870	24945.	.00150	.00140	.00350
26.104	16.260	24945.	-.00020	.00090	.00380
26.104	18.620	24993.	.00110	.00050	.00400
26.097	21.000	24993.	.00010	.00130	.00480
26.041	23.090	24898.	.00230	.00020	.00620
26.107	25.210	25099.	.00440	-.00130	.00650
26.058	27.340	24993.	.00250	-.00060	.01100
	GRADIENT	5.50330	.00000	.00002	.00001

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AMES 12-086 (LA65)

(KNC014) (18 APR 77)

REFERENCE DATA

SREF = .0558 SQ. M. XMRP = .1592 M. XB
 LREF = .2043 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 65.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 74/ 0 RN/L = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.035	-2.100	12449.	-.00020	-.00060	.00360
13.022	-1.040	12449.	-.00030	-.00060	.00360
13.029	.040	12449.	-.00020	-.00050	.00360
12.999	1.140	12401.	-.00030	-.00050	.00360
13.022	2.260	12497.	-.00040	-.00050	.00360
13.022	3.330	12497.	-.00040	-.00040	.00360
13.016	4.390	12497.	-.00040	-.00050	.00360
13.035	6.570	12545.	-.00050	-.00040	.00370
13.022	8.720	12545.	-.00040	-.00040	.00370
13.016	10.930	12545.	.00000	-.00050	.00380
13.012	13.120	12545.	-.00040	-.00050	.00390
12.999	15.290	12497.	-.00040	-.00050	.00430
12.993	17.480	12497.	.00030	-.00110	.00490
12.960	19.590	12449.	-.00180	-.00040	.00570
12.967	21.720	12449.	-.00330	.00030	.00680
12.986	23.790	12545.	-.00130	-.00040	.00920
12.967	25.890	12497.	.00050	-.00070	.01120
GRADIENT		9.48048	-.00003	.00002	.00000

RUN NO. 73/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.637	-2.190	18721.	-.00020	-.00040	.00370
19.634	-1.100	18769.	-.00020	-.00020	.00360
19.634	.030	18917.	-.00020	-.00030	.00350
19.647	1.170	18855.	-.00030	-.00020	.00370
19.643	2.340	18855.	-.00030	-.00020	.00380
19.634	3.450	18917.	-.00030	-.00010	.00390
19.569	4.540	18769.	-.00030	-.00010	.00380
19.597	6.790	18855.	-.00030	-.00010	.00390
19.617	9.150	18950.	-.00020	.00010	.00380
19.617	11.390	18950.	.00040	.00040	.00380
19.617	13.650	19009.	.00050	-.00030	.00410
19.574	15.830	18913.	-.00250	.00020	.00450
19.574	18.160	18913.	-.00480	.00100	.00520
19.578	20.390	18950.	-.00010	-.00030	.00530
19.534	22.450	19009.	-.00070	-.00030	.00820
19.522	24.590	18855.	-.00130	.00020	.01030
19.502	26.720	18855.	-.00180	.00050	.01200
GRADIENT		9.13461	-.00002	.00004	.00003

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AMES 12-086 (LA65)

(KNC014) (18 APR 77)

REFERENCE DATA

SREF	▪	.0558 SQ. M.	XMRP	▪	.1592 M. XB
LREF	▪	.2043 METERS	YMRP	▪	.0000 M. YB
BREF	▪	.3331 METERS	ZMRP	▪	.0000 M. ZB
SCALE	▪	.0000			

PARAMETRIC DATA

T/C	▪	.080	LESWP	▪	35.000
FILSWP	▪	65.000	TESWP	▪	20.000
BETA	▪	.000	MACH	▪	.300
GRITNO	▪	120.000			

RUN NO. 72/ 0 RN/L = 7.99 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.238	-2.320	24754.	.00000	-.00020	.00370
26.251	-1.150	24802.	.00000	-.00020	.00380
26.163	.020	24706.	-.00010	-.00020	.00370
26.173	1.220	24754.	-.00020	-.00020	.00360
26.153	2.390	24754.	-.00030	-.00020	.00370
26.186	3.560	24850.	-.00020	-.00020	.00370
26.212	4.730	24898.	-.00030	-.00020	.00380
26.196	7.110	24945.	-.00030	-.00010	.00400
26.235	9.430	25089.	-.00030	-.00030	.00360
26.228	11.850	25099.	.00060	.00050	.00380
26.232	14.230	25089.	.00270	.00080	.00420
26.189	16.460	25041.	.00170	-.00040	.00490
26.222	18.730	25137.	-.00030	.00000	.00580
26.235	21.050	25185.	.00360	-.00210	.00760
26.202	23.160	25185.	.00090	-.00110	.00940
26.232	25.410	25233.	.00060	-.00080	.01080
26.176	27.600	25185.	-.00030	-.00030	.01290
	GRADIENT	17.42666	-.00005	-.00000	.00000

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AMES 12-086 (LA65)

(KNC015) (18 APR 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = .0538 SQ. M. YMRP = .1394 M. XB
 LREF = .1923 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

T/C = .080 LESHP = 35.000
 FILSHP = 60.000 TESHP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 77/ 0 RN/L = 4.49 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
14.650	-2.050	12449.	-.00030	.00050	.00310
14.827	-1.040	12736.	-.00030	.00060	.00200
14.755	.050	12640.	-.00030	.00070	.00270
14.778	1.150	12688.	-.00040	.00070	.00240
14.748	2.190	12640.	-.00030	.00070	.00250
14.768	3.300	12638.	-.00030	.00080	.00240
14.781	4.340	12736.	-.00040	.00080	.00240
14.702	6.470	12592.	-.00030	.00090	.00260
14.725	8.560	12688.	-.00060	.00080	.00260
14.719	10.700	12640.	-.00090	.00000	.00280
14.742	12.840	12688.	.00030	.00080	.00280
14.771	14.920	12784.	-.00090	.00060	.00310
14.758	16.910	12736.	.00270	-.00040	.00440
14.774	18.990	12784.	.00180	.00000	.00550
14.725	21.090	12688.	.00200	-.00030	.00730
14.742	23.160	12775.	-.00040	.00190	.00890
14.719	25.140	12688.	-.00100	.00110	.01130
GRADIENT		25.30995	-.00001	.00004	-.00005

RUN NO. 76/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.702	-2.080	16913.	-.00010	.00030	.00260
19.673	-1.040	16913.	-.00020	.00040	.00270
19.729	.030	18950.	-.00020	.00040	.00270
19.653	1.140	18913.	-.00030	.00050	.00270
19.630	2.240	18855.	-.00030	.00040	.00280
19.611	3.360	18865.	-.00040	.00040	.00270
19.647	4.400	18950.	-.00040	.00050	.00260
19.581	6.630	18855.	-.00040	.00050	.00240
19.578	8.790	18865.	-.00050	.00050	.00280
19.581	10.960	18855.	-.00100	-.00090	.00260
19.542	13.170	18817.	-.00330	-.00150	.00300
19.522	15.310	18817.	-.00200	.00070	.00350
19.548	17.420	18865.	.00060	.00050	.00430
19.555	19.440	18913.	.00400	-.00090	.00630
19.548	21.530	18913.	.00100	-.00090	.00750
19.574	23.620	18950.	-.00130	.00180	.00940
19.598	25.600	19009.	.00000	.00100	.01180
GRADIENT		-1.69145	-.00005	.00002	.00000

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AMES 12-086 (LA65)

(KNC015) (18 APR 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = .0538 SQ. M. XMRP = .1394 M. XB
 LREF = .1923 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

T/C = .080 LESWP = 35.000
 FILSWP = 60.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 75/ 0 RN/L = 7.83 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
25.697	-2.190	23940.	-.00030	.00020	.00310
25.762	-1.100	24132.	-.00030	.00020	.00320
25.789	.030	24227.	-.00020	.00030	.00330
25.743	1.160	24179.	-.00040	.00030	.00330
25.756	2.290	24227.	-.00030	.00030	.00330
25.762	3.420	24275.	-.00040	.00030	.00320
25.762	4.510	24323.	-.00040	.00030	.00330
25.710	6.800	24227.	-.00030	.00040	.00320
25.710	9.030	24275.	-.00060	.00040	.00310
25.677	11.330	24227.	-.00110	-.00110	.00330
25.694	13.590	24323.	-.00450	-.00190	.00350
25.680	15.750	24323.	-.00240	.00050	.00430
25.664	17.950	24371.	-.00100	.00130	.00440
25.671	20.060	24419.	-.00100	.00240	.00670
25.661	21.900	24419.	.00220	.00140	.00920
25.654	24.020	24467.	-.00070	.00210	.01120
25.713	26.080	24562.	-.00090	.00310	.01290
GRADIENT		45.65846	-.00002	.00002	.00002

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AMES 12FT 086-1-12 (LA65) SHIPS 11

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AMES 12-086 (LA65)

(KNC016) (18 APR 77)

REFERENCE DATA

SREF =	.0524 SQ. M.	XMRP =	.1245 M. XB
LREF =	.1839 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESWP =	35.000
FILSWP =	55.000	TESWP =	20.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 80/ 0 RN/L = 3.91 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
12.868	-2.050	12497.	.00060	.00140	.00370
12.868	-.880	12497.	.00050	.00160	.00360
12.881	.080	12545.	.00060	.00150	.00370
12.881	1.160	12545.	.00050	.00160	.00370
12.868	2.190	12545.	.00040	.00130	.00380
12.858	3.280	12545.	.00040	.00130	.00370
12.842	4.410	12497.	.00040	.00130	.00380
12.871	6.550	12545.	.00040	.00120	.00380
12.865	8.630	12545.	.00040	.00130	.00380
12.865	10.760	12545.	.00010	-.00020	.00390
12.848	12.890	12545.	-.00060	.00110	.00420
12.819	15.020	12497.	-.00050	.00140	.00460
12.832	17.110	12545.	.00330	-.00060	.00540
12.806	19.160	12497.	.00310	-.00130	.00700
12.789	21.140	12449.	.00140	-.00120	.00900
12.816	23.290	12497.	-.00180	.00050	.01120
12.786	25.200	12449.	-.00070	.00100	.01330
	GRADIENT	3.06145	-.00003	-.00004	.00002

RUN NO. 79/ 0 RN/L = 5.91 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.433	-2.100	18950.	.00050	.00090	.00390
19.410	-1.040	18913.	.00060	.00090	.00360
19.401	.050	18913.	.00040	.00100	.00380
19.417	1.200	18950.	.00040	.00100	.00390
19.404	2.270	18960.	.00040	.00100	.00360
19.358	3.420	18865.	.00040	.00110	.00370
19.368	4.470	18913.	.00030	.00090	.00370
19.355	6.650	18913.	.00030	.00110	.00320
19.407	8.890	19008.	.00020	.00090	.00390
19.443	11.110	19104.	-.00010	.00030	.00380
19.460	13.360	19152.	-.00020	.00090	.00420
19.401	15.450	19056.	.00110	.00070	.00460
19.410	17.560	19104.	.00520	-.00120	.00560
19.359	19.700	18960.	.00240	-.00040	.00700
19.348	21.700	19008.	.00140	-.00020	.00890
19.450	23.750	19200.	.00120	-.00010	.01150
19.368	25.810	19056.	.00100	.00050	.01340
	GRADIENT	-6.21534	-.00003	.00001	-.00001

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AMES 12-086 (LA65)

(KNC016) (18 APR 77)

REFERENCE DATA

SREF = .0524 SQ. M. XMRP = .1245 M. XB
 LREF = .1839 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 55.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 78/ 0 RN/L = 7.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.110	-2.160	24993.	.00040	.00060	.00370
26.081	-1.120	24993.	.00030	.00070	.00370
26.100	.030	25041.	.00040	.00060	.00360
26.136	1.170	25185.	.00040	.00060	.00390
26.100	2.280	25137.	.00030	.00060	.00370
26.113	3.460	25185.	.00020	.00070	.00370
26.182	4.610	25376.	.00030	.00060	.00390
26.159	6.930	25329.	.00040	.00060	.00390
26.117	9.210	25329.	.00010	.00060	.00370
26.107	11.490	25376.	.00020	.00000	.00380
26.068	13.810	25329.	-.00040	.00130	.00410
26.015	16.020	25281.	.00230	.00100	.00480
25.972	20.270	25281.	.00210	-.00040	.00710
25.913	22.260	25185.	.00280	-.00140	.00920
26.002	24.300	25424.	.00190	-.00040	.01220
26.051	26.360	25558.	.00270	-.00080	.01390
	GRADIENT	51.47684	-.00002	-.00000	.00002

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AMES 12FT 086-1-12 (LA65) SHIPS II

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WING 11 35-45-0008

AMES 12-086 (LA65)

(KNC017) (18 APR 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = .0504 SQ. M. XMRP = .1031 M. XB
 LREF = .1725 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

T/C = .080 LESWP = 35.000
 FILSWP = 45.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 82/ 0 RN/L = 5.92 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.476	-2.150	19200.	.00040	.00080	.00440
19.433	-1.070	19104.	.00040	.00080	.00450
19.440	.030	19152.	.00040	.00080	.00460
19.414	1.180	19152.	.00040	.00090	.00470
19.440	2.300	19200.	.00050	.00090	.00450
19.394	3.390	19104.	.00050	.00090	.00460
19.397	4.520	19152.	.00050	.00100	.00450
19.401	6.730	19152.	.00050	.00090	.00460
19.404	9.000	19152.	.00060	.00100	.00460
19.407	11.270	19200.	.00050	.00320	.00450
19.414	13.550	19200.	.00430	.00310	.00480
19.417	15.700	19248.	.00360	.00070	.00550
19.433	17.790	19296.	.00160	.00050	.00630
19.381	19.810	19200.	.00340	-.00100	.00780
19.440	21.880	19296.	.00780	-.00360	.01060
19.417	23.900	19296.	.00300	-.00100	.01250
19.381	25.890	19200.	.00020	-.00030	.01580
GRADIENT		-2.98835	.00002	.00003	.00001

RUN NO. 81/ 0 RN/L = 7.83 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
25.779	-2.200	25185.	.00030	.00060	.00460
25.785	-1.130	25281.	.00030	.00060	.00450
25.745	-.010	25233.	.00040	.00060	.00460
25.716	1.180	25185.	.00030	.00060	.00460
25.730	2.290	25233.	.00040	.00040	.00450
25.700	3.500	25185.	.00030	.00050	.00450
25.713	4.670	25233.	.00030	.00050	.00440
25.697	6.990	25233.	.00040	.00050	.00430
25.720	9.340	25329.	.00040	.00060	.00450
25.733	11.700	25376.	.00070	.00280	.00440
25.674	14.080	25329.	.00270	.00170	.00470
25.628	16.320	25233.	.00100	.00110	.00540
25.556	18.400	25137.	.00640	-.00030	.00550
25.611	20.420	25281.	.00490	-.00180	.00790
25.621	22.400	25329.	.00900	-.00390	.01120
25.641	24.500	25376.	.00480	-.00100	.01290
25.644	26.430	25424.	.00200	.00020	.01710
GRADIENT		-1.60394	-.00000	-.00002	-.00002

WING III 45-45-0008

AMES 12-086 (LA55)

(KNC018) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .1064 M. XB
 LREF = .1723 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 45.000
 FILSWP = 45.000 TESWP = 15.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 29/ 0 RN/L = 1.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
6.516	-2.020	5937.	-.00020	.00020	.00300
6.510	-.970	5937.	-.00020	.00030	.00290
6.493	.060	5937.	-.00010	.00020	.00300
6.503	1.120	5937.	-.00010	.00060	.00270
6.487	2.160	5937.	-.00010	.00030	.00270
6.487	3.220	5937.	-.00010	.00060	.00280
6.480	4.200	5937.	-.00010	.00050	.00260
6.513	6.340	5985.	-.00040	.00090	.00300
6.513	8.360	5985.	-.00030	.00150	.00310
6.506	10.450	5985.	-.00020	.00150	.00290
6.510	12.550	5985.	.00030	.00130	.00310
6.496	14.590	5985.	.00050	.00150	.00360
6.483	16.610	5937.	.00060	.00130	.00420
6.477	18.710	5937.	.00110	.00100	.00520
6.467	20.670	5937.	.00130	.00060	.00700
6.464	22.690	5937.	.00070	.00100	.00960
6.444	24.720	5989.	.00180	.00090	.01230
GRADIENT		.00004	.00002	.00006	-.00006

RUN NO. 28/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.068	-2.090	12497.	-.00020	-.00020	.00220
13.045	-1.040	12497.	-.00010	-.00010	.00300
13.022	.060	12497.	-.00010	.00000	.00320
13.032	1.130	12545.	-.00020	-.00010	.00330
13.068	2.230	12698.	-.00010	-.00010	.00320
13.052	3.290	12640.	-.00020	.00000	.00340
13.032	4.360	12640.	-.00050	-.00040	.00330
13.026	6.530	12640.	-.00060	-.00010	.00330
13.019	8.660	12640.	-.00030	.00040	.00330
13.022	10.340	12588.	-.00070	-.00030	.00330
13.012	12.970	12640.	-.00080	-.00030	.00350
12.993	15.100	12640.	-.00190	-.00030	.00410
13.012	17.200	12688.	-.00010	-.00030	.00480
13.029	19.270	12736.	.00050	-.00020	.00610
12.995	21.280	12698.	.00370	-.00230	.00800
13.029	23.320	12736.	.00050	.00010	.01080
13.035	25.350	12784.	-.00350	.00250	.01410
GRADIENT		30.20658	-.00004	-.00002	.00014

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AMES 12-086 (LA65)

(KNC018) (18 APR 77)

REFERENCE DATA

SREF =	.0490 SQ. M.	XMRP =	.1064 M. XB
LREF =	.1723 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESWP =	45.000
FILSWP =	45.000	TESWP =	15.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 27/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.696	-2.160	19008.	-.00010	-.00010	.00330
19.630	-1.060	19008.	-.00010	-.00020	.00360
19.512	.080	19248.	-.00010	-.00020	.00380
19.627	1.160	19104.	-.00020	-.00010	.00380
19.601	2.290	19056.	-.00020	-.00010	.00370
19.617	3.400	19152.	-.00040	-.00030	.00360
19.604	4.480	19152.	-.00050	-.00040	.00370
19.604	6.750	19152.	-.00070	.00000	.00360
19.594	8.950	19152.	-.00030	.00110	.00360
19.584	11.210	19152.	.00090	.00120	.00360
19.588	13.450	19200.	-.00150	-.00020	.00390
19.571	15.640	19152.	-.00160	.00000	.00440
19.551	17.760	19152.	-.00010	.00000	.00520
19.542	19.900	19200.	.00020	-.00030	.00650
19.529	21.960	19200.	-.00120	.00100	.00840
19.581	23.980	19296.	-.00500	.00310	.01120
19.525	25.950	19200.	-.00210	.00160	.01520
	GRADIENT	17.06160	-.00006	-.00003	.00004

RUN NO. 26/ 0 RN/L = 7.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.258	-2.280	25281.	-.00010	-.00020	.00350
26.225	-1.140	25281.	-.00010	-.00010	.00340
26.173	.020	25281.	-.00010	-.00020	.00370
26.169	1.200	25424.	-.00030	-.00020	.00370
26.143	2.310	25329.	-.00030	-.00010	.00370
26.179	3.450	25424.	-.00030	-.00020	.00370
26.143	4.620	25424.	-.00040	-.00010	.00370
26.146	6.970	25472.	-.00080	.00020	.00370
26.120	9.260	25424.	-.00080	.00120	.00370
26.146	11.650	25568.	.00080	.00170	.00360
26.110	13.940	25520.	-.00010	.00050	.00400
26.091	16.200	25520.	.00120	.00020	.00450
26.130	18.410	25616.	.00060	.00000	.00500
26.091	20.550	25558.	-.00160	.00080	.00520
26.035	22.590	25520.	-.00230	.00140	.00640
26.169	24.610	25807.	-.00540	.00330	.01090
26.064	26.580	25616.	-.00290	.00140	.01450
	GRADIENT	23.87936	-.00005	.00001	.00004

WING 111 45-80-0008

AMES 12-086 (LA65)

(KNC019) (18 APR 77)

REFERENCE DATA

SREF = .0709 SQ. M. XMRP = .3166 M. XB
 LREF = .3235 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 45.000
 FILSWP = 80.000 TESWP = 15.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 85/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.094	-2.040	12497.	.00000	-.00060	.00180
13.111	-1.020	12592.	-.00020	-.00050	.00200
13.055	.040	12497.	-.00020	-.00040	.00200
13.065	1.100	12545.	-.00020	-.00040	.00220
13.055	2.170	12592.	-.00030	-.00010	.00230
13.035	3.260	12592.	-.00020	-.00010	.00230
13.016	4.360	12545.	-.00020	-.00010	.00240
13.022	6.460	12592.	-.00010	.00000	.00230
13.019	8.580	12592.	.00020	.00010	.00250
13.062	10.790	12638.	.00040	.00050	.00270
13.049	13.000	12640.	.00050	.00030	.00300
13.035	15.140	12640.	.00070	-.00010	.00310
13.042	17.310	12640.	.00050	-.00120	.00290
13.012	19.570	12592.	.00150	-.00190	.00280
12.993	21.790	12592.	.00230	-.00280	.00280
12.986	24.060	12545.	.00310	-.00410	.00320
12.993	26.230	12592.	.00190	-.00270	.00360
GRADIENT		7.93054	-.00002	.00009	.00009

RUN NO. 84/ 0 RN/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.634	-2.160	19055.	-.00010	-.00050	.00230
19.597	-1.060	19008.	-.00020	-.00040	.00240
19.591	.050	19008.	-.00020	-.00040	.00230
19.574	1.160	19008.	-.00020	-.00020	.00230
19.594	2.250	19056.	-.00010	-.00030	.00240
19.574	3.350	19008.	-.00020	-.00010	.00250
19.555	4.470	19008.	-.00010	-.00020	.00250
19.555	6.660	19008.	-.00020	-.00030	.00250
19.548	8.940	19008.	.00010	-.00060	.00260
19.561	11.180	19056.	-.00020	-.00080	.00290
19.512	13.560	19008.	-.00010	-.00030	.00310
19.522	15.740	19055.	-.00040	-.00090	.00310
19.460	17.920	18960.	.00160	-.00100	.00310
19.492	20.390	19008.	.00120	-.00230	.00300
19.502	22.760	19056.	.00290	-.00400	.00310
19.542	25.110	19152.	.00270	-.00440	.00340
19.515	27.480	19104.	.00130	-.00460	.00370
GRADIENT		-3.10493	.00000	.00005	.00003

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AMES 12-086 (LA65)

(KNC019) (18 APR 77)

REFERENCE DATA

SREF	=	.0709 SQ. M.	XMRP	=	.3166 M. XB
LREF	=	.3235 METERS	YMRP	=	.0000 M. YB
BREF	=	.3331 METERS	ZMRP	=	.0000 M. ZB
SCALE	=	.0000			

PARAMETRIC DATA

T/C	=	.080	LESWP	=	45.000
FILSWP	=	80.000	TESWP	=	15.000
BETA	=	.000	MACH	=	.300
GRITNO	=	120.000			

RUN NO. 83/ 0 RN/L = 7.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.228	-2.210	25185.	.00000	-.00050	.00230
26.202	-1.070	25185.	-.00010	-.00040	.00230
26.176	.050	25137.	-.00010	-.00040	.00230
26.127	1.130	25089.	-.00020	-.00030	.00240
26.159	2.350	25185.	-.00020	-.00020	.00230
26.133	3.490	25137.	-.00010	-.00030	.00240
26.136	4.630	25185.	-.00020	-.00010	.00240
26.077	6.920	25089.	-.00010	-.00010	.00240
26.163	9.270	25281.	.00000	-.00030	.00260
26.186	11.550	25376.	.00000	-.00080	.00280
26.136	14.000	25329.	.00000	.00050	.00330
26.196	16.360	25472.	.00190	.00020	.00330
26.091	18.770	25281.	.00180	-.00110	.00300
26.097	21.230	25329.	.00190	-.00270	.00300
26.002	23.760	25185.	.00300	-.00430	.00310
26.022	26.230	25233.	.00360	-.00530	.00340
26.173	28.700	25568.	-.00200	-.00460	.00410
	GRADIENT	-1.34277	-.00002	.00005	.00002

WING III 45-75-0008

AMES 12-086 (LA65)

(KNC020) (18 APR 77)

REFERENCE DATA

SREF ■ .0618 SQ. M. XMRP ■ .2337 M. XB
 LREF ■ .2554 METERS YMRP ■ .0000 M. YB
 BREF ■ .3331 METERS ZMRP ■ .0000 M. ZB
 SCALE ■ .0000

PARAMETRIC DATA

T/C ■ .080 LESWP ■ 45.000
 FILSWP ■ 75.000 TESWP ■ 15.000
 BETA ■ .000 MACH ■ .300
 GRITNO ■ 120.000

RUN NO. 88/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.029	-2.000	12401.	.00000	.00000	.00260
13.068	-1.010	12497.	.00000	.00010	.00240
13.065	.030	12497.	.00000	.00020	.00250
13.085	1.090	12592.	-.00010	.00020	.00260
13.081	2.130	12592.	-.00010	.00020	.00250
13.065	3.180	12545.	-.00010	.00030	.00260
13.052	4.290	12545.	-.00020	.00020	.00260
13.065	6.390	12592.	-.00020	.00020	.00280
13.052	8.450	12592.	-.00040	-.00020	.00300
13.075	10.560	12640.	-.00080	.00020	.00300
13.065	12.640	12640.	-.00060	.00020	.00310
13.058	14.770	12640.	-.00060	.00010	.00340
13.065	16.880	12640.	.00050	.00000	.00340
13.045	19.040	12640.	.00080	.00050	.00330
13.062	21.180	12640.	.00000	.00120	.00330
13.052	23.280	12640.	.00260	.00030	.00440
13.032	25.280	12640.	.00110	.00070	.00620
GRADIENT		21.01319	-.00003	.00003	.00001

RUN NO. 87/ 0 RN/L = 5.99 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.636	-2.090	18913.	-.00010	.00000	.00270
19.650	-1.030	18865.	-.00010	.00000	.00260
19.686	.040	19056.	-.00010	.00010	.00270
19.663	1.130	19009.	-.00020	.00020	.00280
19.696	2.230	19104.	-.00020	.00030	.00270
19.650	3.310	19056.	-.00030	.00030	.00290
19.634	4.320	19008.	-.00020	.00030	.00280
19.656	6.490	19104.	-.00020	.00020	.00290
19.630	8.610	19104.	-.00040	-.00020	.00310
19.650	10.790	19152.	-.00140	-.00040	.00310
19.643	12.940	19152.	-.00130	-.00010	.00340
19.627	15.110	19152.	-.00010	.00030	.00340
19.578	17.290	19056.	-.00050	.00030	.00390
19.528	19.510	19104.	.00310	-.00100	.00390
19.571	21.730	19056.	.00230	-.00060	.00380
19.574	23.920	19104.	-.00430	.00200	.00420
19.574	26.000	19104.	-.00390	.00270	.00600
GRADIENT		23.98405	-.00003	.00006	.00003

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AMES 12-086 (LA65)

(KNC020) (18 APR 77)

REFERENCE DATA

SREF = .0618 SQ. M. XMRP = .2337 M. XB
 LREF = .2554 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 45.000
 FILSWP = 75.000 TESWP = 15.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 86/ 0 RN/L = 7.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.130	-2.150	24945.	.00000	.00000	.00270
26.159	-1.050	25041.	.00000	.00010	.00270
26.123	.040	25041.	-.00010	.00020	.00270
26.179	1.150	25137.	-.00010	.00020	.00270
26.140	2.270	25089.	-.00010	.00030	.00270
26.143	3.350	25137.	-.00020	.00030	.00280
26.143	4.410	25137.	-.00010	.00030	.00280
26.136	6.600	25185.	-.00010	.00030	.00290
26.110	8.790	25137.	-.00020	-.00030	.00300
26.110	11.010	25137.	-.00130	-.00090	.00310
26.097	13.280	25185.	-.00210	-.00110	.00320
26.087	15.470	25165.	-.00120	-.00010	.00340
26.028	17.700	25137.	.00200	-.00040	.00390
25.976	19.940	25041.	.00290	-.00130	.00390
26.094	22.350	25329.	.00270	-.00140	.00370
25.935	24.520	25137.	-.00750	.00210	.00410
26.091	26.630	25376.	-.01000	.00420	.00590
	GRADIENT	26.52630	-.00002	.00005	.00002

WING 111 45-70-0008

AMES 12-086 (LA65)

(KNC021) (18 APR 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = .0572 SO. M. XTRP = .1896 M. XB
 LREF = .2233 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

T/C = .080 LESWP = 45.000
 FILSWP = 70.000 TESWP = 15.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 90/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.679	-2.140	18960.	.00010	.00030	.00350
19.670	-1.060	19008.	.00020	.00040	.00340
19.630	.070	18960.	.00010	.00040	.00350
19.604	1.130	18913.	.00010	.00040	.00340
19.538	2.240	18817.	.00020	.00050	.00360
19.571	3.390	18865.	.00020	.00050	.00370
19.565	4.480	18865.	.00020	.00060	.00360
19.551	6.680	18865.	.00030	.00060	.00360
19.561	8.890	18913.	.00050	.00190	.00370
19.571	11.110	18960.	.00200	.00250	.00390
19.535	13.300	18913.	.00040	.00070	.00430
19.584	15.560	19008.	.00000	.00050	.00460
19.581	17.790	19056.	.00230	.00020	.00480
19.617	20.110	19104.	.00160	.00040	.00480
19.578	22.260	19056.	.00300	.00010	.00590
19.558	24.410	19008.	.00240	.00050	.00830
19.588	26.340	19104.	.00080	.00080	.01170
GRADIENT	-23.17695		.00001	.00004	.00003

RUN NO. 89/ 0 RN/L = 7.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.150	-2.210	25041.	.00020	.00030	.00350
26.127	-1.110	24993.	.00010	.00040	.00350
26.182	.020	25137.	.00030	.00030	.00360
26.133	1.150	25089.	.00020	.00040	.00360
26.176	2.330	25185.	.00010	.00050	.00350
26.107	3.450	25069.	.00030	.00040	.00340
26.136	4.590	25137.	.00020	.00050	.00360
26.153	6.900	25233.	.00030	.00050	.00350
26.209	9.170	25329.	.00050	.00140	.00350
26.163	11.460	25281.	.00190	.00120	.00380
26.133	13.760	25233.	.00290	.00260	.00400
26.173	16.130	25329.	.00230	.00090	.00440
26.156	18.490	25329.	.00200	.00090	.00460
26.077	20.750	25185.	.00260	.00060	.00500
26.192	22.950	25472.	.00540	-.00040	.00540
26.113	25.060	25329.	.00630	-.00150	.00690
26.071	27.050	25281.	.00300	-.00050	.01220
GRADIENT	16.57361		.00001	.00003	-.00000

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AMES 12FT 086-1-12 (LA65) SHIPS II

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WING III 45-65-0008

AMES 12-086 (LA65)

(KNC022) (18 APR 77)

REFERENCE DATA

SREF =	.0544 SQ. M.	XMRP =	.1617 M. XB
LREF =	.2047 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESWP =	45.000
FILSWP =	65.000	TESWP =	15.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 92/ 0 RN/L = 5.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.545	-2.190	19104.	-.00020	-.00100	.00460
19.509	-1.050	19056.	-.00020	-.00090	.00460
19.529	.070	19152.	-.00030	-.00080	.00460
19.496	1.190	19056.	-.00040	-.00070	.00460
19.502	2.290	19104.	-.00030	-.00080	.00470
19.460	3.460	19056.	-.00030	-.00070	.00470
19.456	4.540	19056.	-.00030	-.00070	.00470
19.456	6.800	19056.	-.00030	-.00070	.00470
19.443	9.060	19055.	-.00030	-.00130	.00490
19.450	11.320	19055.	-.00030	-.00130	.00470
19.456	13.610	19104.	-.00220	-.00230	.00500
19.466	15.840	19152.	-.00490	-.00240	.00540
19.460	18.110	19104.	.00000	.00200	.00590
19.485	20.340	19200.	.00310	-.00280	.00690
19.460	22.450	19152.	-.00190	-.00140	.00900
19.443	24.500	19152.	-.00280	-.00010	.01150
19.512	26.680	19296.	-.00120	-.00060	.01340
	GRADIENT	-6.11635	-.00002	.00004	.00002

RUN NO. 91/ 0 RN/L = 7.93 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.104	-2.290	24993.	-.00010	-.00060	.00470
26.028	-1.120	24945.	.00000	-.00050	.00460
26.045	.030	24993.	-.00020	-.00060	.00460
26.058	1.200	25041.	-.00030	-.00050	.00460
26.041	2.360	25041.	-.00020	-.00050	.00470
26.015	3.530	25041.	-.00020	-.00060	.00450
25.995	4.690	25041.	-.00030	-.00050	.00470
26.018	7.010	25093.	-.00030	-.00060	.00470
26.074	9.390	25233.	-.00010	-.00070	.00470
26.008	11.760	25185.	-.00050	-.00060	.00460
26.018	14.110	25233.	-.00030	-.00070	.00490
25.979	16.410	25185.	-.00240	-.00110	.00550
25.953	18.730	25185.	-.00420	-.00010	.00630
25.963	21.030	25233.	.00050	-.00110	.00750
25.933	23.290	25185.	.00500	-.00310	.00890
26.048	25.360	25424.	.00220	-.00290	.01170
25.933	27.510	25281.	.00070	-.00160	.01400
	GRADIENT	11.73293	-.00003	.00001	-.00000

WING III 45-60-0008

AMES 12-086 (LA65)

(KNC023) (18 APR 77)

REFERENCE DATA

SREF	=	.0524 SQ. M.	XMRP	=	.1421 M. XB
LREF	=	.1926 METERS	YMRP	=	.0000 M. YB
BREF	=	.3331 METERS	ZMRP	=	.0000 M. ZB
SCALE	=	.0000			

PARAMETRIC DATA

T/C	=	.080	LESHP	=	45.000
FILSHP	=	60.000	TESHP	=	15.000
BETA	=	.000	MACH	=	.300
GRITNO	=	120.000			

RUN NO. 94/ 0 RN/L = 5.90 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.384	-2.150	18865.	.00000	.00020	.00380
19.378	-.990	18965.	.00000	.00030	.00390
19.397	.040	18950.	.00000	.00030	.00390
19.358	1.170	18965.	-.00010	.00040	.00390
19.394	2.270	18960.	-.00020	.00040	.00380
19.384	3.350	18960.	-.00030	.00040	.00400
19.384	4.440	18960.	-.00020	.00040	.00380
19.358	6.600	18913.	-.00020	.00040	.00370
19.401	8.780	19008.	-.00030	-.00010	.00390
19.358	10.970	18960.	-.00100	-.00020	.00410
19.319	13.140	18865.	-.00110	.00010	.00450
19.302	15.290	18865.	-.00010	.00030	.00480
19.292	17.410	18865.	-.00110	.00060	.00560
19.289	19.500	18855.	-.00590	.00270	.00670
19.305	21.560	18913.	-.00130	.00100	.00860
19.368	23.650	19056.	.00170	.00110	.01110
19.315	25.680	18950.	.00020	.00300	.01340
	GRADIENT	15.53558	-.00005	.00003	.00000

RUN NO. 93/ 0 RN/L = 7.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.261	-2.170	24945.	.00020	.00030	.00350
26.212	-1.080	24999.	.00020	.00030	.00380
26.173	.030	24950.	.00010	.00040	.00380
26.117	1.230	24802.	.00010	.00040	.00380
26.136	2.320	24898.	.00000	.00040	.00390
26.104	3.440	24950.	.00000	.00040	.00380
26.140	4.520	24945.	.00010	.00040	.00380
26.225	6.790	25185.	.00000	.00040	.00380
26.218	9.010	25185.	-.00020	-.00040	.00380
26.212	11.270	25233.	.00010	.00110	.00410
26.205	13.530	25233.	-.00020	.00030	.00430
26.166	15.700	25185.	-.00250	.00030	.00480
26.130	17.870	25185.	-.00320	.00090	.00540
26.104	20.000	25137.	-.00370	.00260	.00650
26.146	22.010	25233.	-.00330	.00250	.00890
26.196	24.090	25375.	.00170	-.00020	.01190
26.156	26.130	25329.	.00230	.00060	.01390
	GRADIENT	-1.64695	-.00003	.00002	.00003

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WING III 45-55-0008

AMES 12-086 (LA65)

(KNC024) (18 APR 77)

REFERENCE DATA

PARAMETRIC DATA

SREF = .0510 SQ. M. XMRP = .1275 M. XB
 LREF = .1839 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

T/C = .080 LESWP = 45.000
 FILSWP = 55.000 TESWP = 15.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 95/ 0 RN/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.515	-2.150	18913.	.00010	.00000	.00420
19.519	-1.060	18960.	.00020	.00000	.00420
19.538	.020	19008.	.00000	.00010	.00420
19.542	1.200	19008.	.00010	.00000	.00420
19.492	2.250	18913.	.00010	.00010	.00430
19.519	3.340	19008.	.00000	.00010	.00450
19.515	4.420	19008.	.00010	.00020	.00440
19.506	6.670	19008.	.00020	.00010	.00430
19.486	8.850	18960.	.00050	.00010	.00450
19.512	11.070	19055.	.00070	.00010	.00450
19.519	13.290	19056.	-.00100	-.00010	.00490
19.558	15.420	19200.	-.00030	.00020	.00560
19.496	17.570	19056.	.00000	.00030	.00630
19.512	19.730	19104.	-.00090	.00060	.00740
19.515	21.750	19104.	-.00470	.00350	.00920
19.492	23.810	19056.	-.00130	.00070	.01160
19.509	25.820	19104.	.00380	-.00110	.01520
GRADIENT		9.34637	-.00001	.00003	.00004

RUN NO. 95/ 0 RN/L = 7.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.271	-2.220	25233.	.00010	.00010	.00400
26.245	-1.110	25233.	.00000	.00020	.00410
26.268	.000	25329.	.00020	.00020	.00410
26.209	1.230	25233.	.00020	.00030	.00420
26.232	2.330	25281.	.00010	.00020	.00410
26.196	3.450	25233.	.00020	.00020	.00410
26.189	4.550	25281.	.00020	.00010	.00410
26.182	6.640	25281.	.00030	.00030	.00420
26.041	9.090	25041.	.00070	.00030	.00430
26.153	11.420	25281.	.00090	.00030	.00440
26.104	13.700	25233.	-.00140	-.00030	.00500
26.097	15.900	25233.	-.00210	.00010	.00550
26.123	18.070	25281.	.00020	.00040	.00630
26.025	20.250	25137.	-.00070	.00090	.00730
26.205	22.380	25520.	.00160	-.00080	.00690
26.054	24.370	25281.	.00340	-.00270	.01210
26.087	26.330	25329.	.00290	-.00240	.01590
GRADIENT		2.89314	.00002	.00000	.00001

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WING IV 53-53-0008

AMES 12-086 (LA65)

(KNC025) (18 APR 77)

REFERENCE DATA

SREF =	.0490 SQ. M.	XMRP =	.1253 M. XB
LREF =	.1801 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESWP =	53.000
FILSWP =	53.000	TESWP =	7.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 33/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
6.319	-1.950	5985.	.00080	.00060	.00370
6.296	-.990	5995.	.00060	.00050	.00370
6.293	.110	5985.	.00070	.00070	.00370
6.293	1.120	5985.	.00070	.00050	.00370
6.293	2.130	5985.	.00070	.00050	.00380
6.277	3.190	5985.	.00050	.00020	.00400
6.277	4.220	5985.	.00050	.00020	.00380
6.273	6.300	5985.	.00050	.00020	.00390
6.263	8.330	5937.	.00050	.00010	.00400
6.260	10.410	5935.	.00050	.00070	.00430
6.263	12.470	5985.	.00080	.00090	.00430
6.260	14.530	5985.	.00090	.00080	.00510
6.250	16.590	5937.	.00120	.00040	.00580
6.277	18.640	6033.	.00010	.00100	.00670
6.267	20.660	5985.	.00010	.00130	.00750
6.267	22.680	5985.	.00190	.00010	.00980
6.257	24.700	5985.	.00020	.00100	.01310
GRADIENT		-.00004	-.00004	-.00007	.00003

RUN NO. 32/ 0 RN/L = 3.87 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
12.773	-2.050	12401.	.00040	.00030	.00400
12.727	-1.000	12353.	.00020	.00020	.00410
12.717	.070	12353.	.00020	.00030	.00400
12.737	1.130	12401.	.00030	.00030	.00410
12.730	2.200	12401.	.00030	.00040	.00410
12.704	3.230	12353.	.00030	.00040	.00420
12.734	4.310	12401.	.00020	.00030	.00410
12.707	6.430	12353.	.00030	.00020	.00420
12.727	8.590	12401.	.00070	-.00050	.00410
12.701	10.700	12353.	-.00100	-.00250	.00420
12.704	12.820	12353.	.00230	.00130	.00460
12.720	14.930	12449.	-.00100	-.00040	.00500
12.697	17.030	12401.	-.00050	.00020	.00590
12.704	19.140	12401.	.00080	.00030	.00590
12.698	21.210	12353.	.00040	.00040	.00830
12.694	23.240	12401.	.00420	-.00250	.01020
12.681	25.230	12401.	.00230	-.00070	.01350
GRADIENT		1.64691	-.00001	.00002	.00002

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AMES 12FT 086-1-12 (LA65) SHIPS II

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WING IV 53-53-0008

AMES 12-086 (LA65)

(KNC025) (18 APR 77)

REFERENCE DATA

SREF	=	.0490 SQ. M.	XMRP	=	.1253 M. XB
LREF	=	.1801 METERS	YMRP	=	.0000 M. YB
BREF	=	.3331 METERS	ZMRP	=	.0000 M. ZB
SCALE	=	.0000			

PARAMETRIC DATA

T/C	=	.080	LESWP	=	53.000
FILSWP	=	53.000	TESWP	=	7.000
BETA	=	.000	MACH	=	.300
GRITNO	=	120.000			

RUN NO. 31/ 0 RN/L = 5.84 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.227	-2.100	18625.	.00030	.00020	.00400
19.210	-1.060	18577.	.00020	.00020	.00400
19.187	.040	18577.	.00020	.00020	.00410
19.200	1.170	18525.	.00020	.00020	.00410
19.177	2.230	18577.	.00020	.00020	.00410
19.184	3.310	18525.	.00020	.00030	.00420
19.158	4.460	18577.	.00020	.00020	.00420
19.171	6.580	18625.	.00040	.00020	.00410
19.161	8.830	18625.	.00080	-.00040	.00430
19.158	11.000	18625.	-.00030	-.00110	.00440
19.158	13.200	18673.	-.00160	-.00140	.00460
19.135	15.350	18625.	-.00140	-.00040	.00520
19.161	17.520	18673.	-.00140	-.00010	.00610
19.105	19.670	18577.	-.00020	.00000	.00710
19.099	21.750	18577.	-.00010	.00040	.00830
19.089	23.850	18625.	-.00040	.00110	.01060
19.112	25.860	18673.	-.00040	.00170	.01400
	GRADIENT	-1.53075	-.00001	.00001	.00003

RUN NO. 30/ 0 RN/L = 7.90 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.015	-2.180	24705.	.00030	.00010	.00400
26.048	-1.100	24839.	.00020	.00010	.00410
26.048	.020	24945.	.00020	.00010	.00390
26.012	1.180	24839.	.00010	.00010	.00400
25.936	2.290	24802.	.00010	.00010	.00410
25.940	3.410	24802.	.00010	.00010	.00410
25.834	4.510	24802.	.00010	.00010	.00420
25.897	6.770	24850.	.00010	-.00010	.00420
25.966	9.040	24933.	.00050	-.00060	.00410
25.930	11.320	25041.	-.00040	-.00070	.00440
25.913	13.560	25137.	.00080	.00080	.00470
25.844	15.820	25069.	-.00010	.00010	.00530
25.871	18.020	25185.	-.00110	.00010	.00600
25.821	20.230	25089.	.00000	.00000	.00720
25.854	22.360	25185.	-.00060	.00070	.00870
25.792	24.430	25089.	-.00070	.00170	.01090
25.828	26.330	25185.	.00010	.00140	.01420
	GRADIENT	-1.67266	-.00003	.00000	.00003

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AMES 12FT 086-1-12 (LA65) SHIPS II

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WING IV 53-80-0008

AMES 12-086 (LA65)

(KNC026) (18 APR 77)

REFERENCE DATA

SREF =	.0694 SQ. M.	XMRP =	.3160 M. XB
LREF =	.3236 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESWP =	53.000
FILSWP =	80.000	TESWP =	7.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 99/ 0 RN/L = 3.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
12.934	-2.080	12497.	-.00050	-.00070	.00250
12.934	-1.010	12497.	-.00050	-.00070	.00250
12.930	.040	12497.	-.00050	-.00080	.00250
12.927	1.090	12497.	-.00060	-.00080	.00260
12.914	2.160	12497.	-.00060	-.00050	.00260
12.911	3.220	12497.	-.00060	-.00040	.00260
12.914	4.310	12497.	-.00070	-.00030	.00270
12.930	6.450	12545.	-.00060	-.00050	.00270
12.930	8.560	12545.	-.00060	-.00070	.00270
12.914	10.730	12545.	-.00100	-.00110	.00300
12.911	12.920	12545.	-.00050	-.00060	.00330
12.907	15.080	12545.	.00000	.00140	.00340
12.894	17.250	12545.	-.00050	.00210	.00330
12.855	19.490	12449.	.00050	.00220	.00300
12.930	21.710	12592.	.00120	.00220	.00280
12.891	23.980	12545.	.00390	.00100	.00320
12.937	26.200	12640.	.00520	.00100	.00370
	GRADIENT	.00007	-.00003	.00007	.00003

RUN NO. 98/ 0 RN/L = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.509	-2.090	18865.	-.00040	-.00090	.00250
19.483	-1.010	18817.	-.00050	-.00090	.00250
19.440	.050	18769.	-.00050	-.00080	.00260
19.529	1.150	18960.	-.00060	-.00060	.00260
19.476	2.220	18955.	-.00050	-.00020	.00270
19.450	3.360	18955.	-.00050	-.00040	.00270
19.460	4.430	18955.	-.00060	-.00030	.00270
19.446	6.650	18955.	-.00040	.00010	.00260
19.443	8.860	18865.	-.00040	.00050	.00280
19.476	11.120	18960.	.00000	.00030	.00300
19.469	13.370	18960.	.00050	.00070	.00330
19.466	15.610	19008.	.00080	.00100	.00370
19.433	17.890	18913.	-.00070	.00330	.00360
19.404	20.210	18913.	.00130	.00290	.00290
19.384	22.610	18855.	.00140	.00170	.00290
19.440	25.000	19008.	.00450	.00090	.00310
19.410	27.260	18960.	.00410	.00090	.00370
	GRADIENT	6.30781	-.00002	.00011	.00004

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AMES 12-086 (LA65)

(KNC026) (18 APR 77)

REFERENCE DATA

SREF =	.0694 SQ. M.	XMRP =	.3168 M. XB
LREF =	.3236 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESHP =	53.000
FILSHP =	80.000	TESHP =	7.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 97/ 0 RN/L = 7.99 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.300	-2.170	25137.	-.00050	-.00100	.00250
26.255	-1.090	25041.	-.00060	-.00100	.00260
26.251	.060	25089.	-.00050	-.00080	.00270
26.241	1.180	25089.	-.00050	-.00070	.00260
26.179	2.290	25041.	-.00060	-.00050	.00260
26.169	3.470	25041.	-.00050	-.00030	.00270
26.169	4.530	25041.	-.00050	-.00020	.00260
26.169	5.720	25089.	-.00050	.00010	.00270
26.156	6.830	25089.	-.00050	.00040	.00270
26.278	9.150	25329.	-.00030	.00060	.00270
26.258	11.500	25329.	.00000	.00070	.00290
26.235	13.640	25376.	.00120	.00150	.00350
26.258	16.190	25424.	-.00130	.00080	.00370
26.232	18.570	25424.	-.00190	.00270	.00350
26.159	21.060	25329.	.00150	.00210	.00280
26.241	23.610	25520.	.00350	.00320	.00300
26.159	25.090	25424.	.00410	.00080	.00320
26.169	28.530	25472.	.00280	.00140	.00400
	GRADIENT	-10.60588	.00000	.00013	.00000

WING IV 53-75-0008

AMES 12-086 (LA65)

(KNC027) (18 APR 77)

REFERENCE DATA

SREF =	.0603 SQ. M.	XMRP =	.2349 M. XB
LREF =	.2549 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESHP =	53.000
FILSHP =	75.000	TESHP =	7.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 102/ 0 RN/L = 3.93 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
12.970	-1.990	12497.	-.00030	-.00100	.00270
12.944	-.990	12449.	-.00030	-.00090	.00280
12.937	.040	12449.	-.00030	-.00080	.00290
12.911	1.070	12449.	-.00020	-.00070	.00300
12.907	2.120	12449.	-.00040	-.00070	.00310
12.907	3.230	12449.	-.00040	-.00060	.00310
12.898	4.220	12449.	-.00030	-.00060	.00310
12.904	6.310	12449.	-.00040	-.00090	.00320
12.921	8.420	12497.	-.00060	-.00130	.00330
12.907	10.450	12497.	-.00080	-.00130	.00350
12.907	12.600	12497.	-.00040	-.00050	.00370
12.894	14.700	12497.	.00060	.00010	.00360
12.888	16.800	12497.	.00170	-.00130	.00350
12.858	18.960	12449.	.00170	-.00140	.00350
12.891	21.080	12497.	-.00030	-.00060	.00380
12.875	23.210	12497.	-.00150	-.00020	.00400
12.871	25.350	12497.	-.00600	.00110	.00480
GRADIENT		-4.87436	-.00001	.00007	.00007

RUN NO. 101/ 0 RN/L = 5.89 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.420	-2.070	18317.	.00000	-.00050	.00290
19.397	-1.010	18917.	-.00010	-.00050	.00290
19.374	.050	18817.	-.00010	-.00030	.00300
19.319	1.120	19721.	-.00010	-.00020	.00310
19.312	2.170	18721.	-.00010	-.00020	.00310
19.345	3.290	18865.	-.00010	-.00020	.00320
19.309	4.350	18769.	-.00020	.00000	.00320
19.345	6.430	18865.	-.00010	-.00060	.00330
19.325	8.550	18865.	-.00040	-.00110	.00340
19.361	10.690	18960.	-.00140	-.00190	.00350
19.319	12.840	18865.	-.00090	-.00090	.00380
19.292	15.030	18865.	-.00100	.00020	.00370
19.328	17.200	18960.	-.00070	.00050	.00380
19.279	19.340	18865.	-.00310	.00050	.00390
19.206	21.550	18865.	-.00060	-.00010	.00390
19.341	23.790	19009.	.00160	-.00100	.00420
19.296	25.860	18913.	-.00050	-.00020	.00520
GRADIENT		-4.65901	-.00002	.00007	.00005

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WING IV 53-75-0008

AMES 12-086 (LA65)

(KNC027) (18 APR 77)

REFERENCE DATA

SREF =	.0603 SQ. M.	XMRP =	.2349 M. XB
LREF =	.2549 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESWP =	53.000
FILSWP =	75.000	TESWP =	7.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 100/ 0 RN/L = 7.91 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.064	-2.110	24993.	.00000	-.00010	.00290
26.048	-1.040	24993.	.00000	.00000	.00300
26.008	.050	24993.	-.00010	.00010	.00300
25.920	1.150	24850.	.00010	.00000	.00310
25.963	2.220	24945.	.00000	.00000	.00300
25.953	3.330	24993.	.00000	-.00010	.00310
25.930	4.390	24945.	-.00010	.00000	.00320
25.956	5.450	25041.	.00000	-.00020	.00320
25.943	6.550	25041.	.00020	-.00040	.00320
25.999	8.730	25137.	-.00030	-.00130	.00340
25.963	10.930	25137.	-.00120	-.00230	.00360
25.976	13.120	25185.	-.00170	-.00190	.00370
25.999	15.430	25281.	-.00030	-.00050	.00370
25.900	17.580	25137.	-.00390	.00050	.00400
25.894	19.780	25137.	-.00320	.00050	.00390
25.871	22.090	25137.	-.00080	-.00040	.00380
25.890	24.340	25185.	.00060	-.00070	.00410
25.841	26.470	25137.	-.00060	-.00060	.00640
	GRADIENT	-6.31011	-.00001	-.00000	.00004

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AMES 12FT 086-1-12 (LA65) SHIPS II

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WING IV 53-70-0008

AMES 12-086 (LA65)

(KNC028) (18 APR 77)

REFERENCE DATA

SREF	=	.0557 SQ. M.	XMRP	=	.1914 M. XB
LREF	=	.2226 METERS	YMRP	=	.0000 M. YB
BREF	=	.3331 METERS	ZMRP	=	.0000 M. ZB
SCALE	=	.0000			

PARAMETRIC DATA

T/C	=	.080	LESWP	=	53.000
FILSWP	=	70.000	TESWP	=	7.000
BETA	=	.000	MACH	=	.300
GRITNO	=	120.000			

RUN NO. 104/ 0 RN/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.496	-2.130	18913.	.00000	.00030	.00390
19.473	-1.070	18913.	.00000	.00040	.00390
19.601	.030	19152.	.00000	.00040	.00390
19.594	1.130	19200.	.00000	.00040	.00390
19.571	2.240	19152.	-.00010	.00050	.00410
19.561	3.370	19152.	.00000	.00050	.00390
19.588	4.430	19200.	.00010	.00050	.00410
19.532	6.610	19152.	.00010	.00030	.00400
19.545	8.820	19200.	.00010	.00030	.00410
19.571	11.060	19248.	.00250	.00340	.00430
19.506	13.210	19104.	.00410	.00330	.00470
19.529	15.470	19200.	.00240	.00200	.00480
19.512	17.740	19152.	-.00400	.00130	.00530
19.469	19.970	19104.	-.00380	.00150	.00590
19.463	22.140	19104.	.00710	-.00150	.00670
19.492	24.230	19200.	.00500	-.00170	.00910
19.460	26.230	19152.	.00080	-.00150	.01220
	GRADIENT	43.47188	.00001	.00003	.00003

RUN NO. 103/ 0 RN/L = 7.90 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.064	-2.180	25185.	-.00010	.00040	.00380
26.005	-1.120	25089.	-.00010	.00020	.00390
25.995	.090	25137.	-.00010	.00030	.00390
25.966	1.200	25137.	-.00010	.00030	.00390
26.002	2.360	25233.	-.00010	.00030	.00410
25.956	3.470	25137.	-.00010	.00040	.00400
26.005	4.550	25281.	-.00020	.00030	.00400
25.943	6.840	25185.	.00000	.00020	.00410
25.969	9.080	25291.	-.00010	.00040	.00420
25.949	11.340	25281.	.00040	.00090	.00430
25.923	13.650	25233.	.00310	.00290	.00450
25.920	15.960	25281.	.00370	.00150	.00490
25.833	18.300	25137.	-.00260	.00110	.00520
25.819	20.640	25137.	-.00490	.00190	.00570
25.851	22.780	25233.	.00240	-.00020	.00720
25.792	24.910	25137.	.00470	-.00110	.00970
25.848	27.000	25281.	-.00080	-.00070	.01300
	GRADIENT	15.17218	-.00001	.00000	.00004

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AMES 12FT 086-1-12 (LA65) SHIPS II

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WING IV 53-65-0008

AMES 12-086 (LA65)

(KNC029) (18 APR 77)

REFERENCE DATA

SREF	=	.0528 SQ. M.	XMRP	=	.1639 M. XB
LREF	=	.2038 METERS	YMRP	=	.0000 M. YB
BREF	=	.3331 METERS	ZMRP	=	.0000 M. ZB
SCALE	=	.0000			

PARAMETRIC DATA

T/C	=	.080	LESWP	=	53.000
FILSWP	=	65.000	TESWP	=	7.000
BETA	=	.000	MACH	=	.300
GRITNO	=	120.000			

RUN NO. 106/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.620	-2.150	19009.	.00020	-.00010	.00500
19.637	-1.100	19056.	.00010	-.00010	.00480
19.640	.030	19152.	.00010	-.00010	.00490
19.673	1.140	19200.	.00000	-.00020	.00490
19.650	2.320	19200.	.00010	-.00010	.00530
19.630	3.430	19152.	.00000	-.00020	.00490
19.650	4.540	19200.	.00000	.00010	.00470
19.630	6.750	19200.	.00010	.00010	.00490
19.611	8.990	19200.	-.00010	-.00040	.00480
19.620	11.260	19200.	-.00050	-.00030	.00500
19.620	13.500	19248.	-.00110	-.00030	.00530
19.594	15.710	19200.	-.00010	-.00010	.00580
19.594	18.000	19152.	.00120	.00020	.00540
19.551	20.150	19152.	.00180	-.00050	.00810
19.519	22.270	19056.	.00580	-.00320	.00960
19.486	24.440	19008.	.00260	-.00220	.01220
19.548	26.630	19152.	.00320	-.00190	.01400
GRADIENT		25.79254	-.00003	.00001	.00000

RUN NO. 105/ 0 RN/L = 7.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.294	-2.280	25233.	.00010	.00000	.00470
26.261	-1.140	25185.	.00020	-.00010	.00460
26.245	.050	25233.	.00010	.00000	.00490
26.205	1.210	25185.	.00020	.00020	.00490
26.136	2.320	25185.	.00020	.00020	.00490
26.087	3.490	25137.	.00020	.00010	.00480
26.140	4.640	25233.	.00000	.00010	.00480
26.123	6.990	25233.	-.00010	.00010	.00480
26.179	9.300	25376.	.00000	-.00020	.00480
26.215	11.640	25472.	-.00050	-.00050	.00490
26.153	13.990	25424.	-.00170	-.00100	.00510
26.120	16.280	25424.	.00050	.00000	.00590
26.156	18.580	25520.	.00070	.00000	.00680
26.104	20.750	25424.	.00190	-.00030	.00880
26.054	22.960	25376.	.00060	.00040	.01040
26.150	25.110	25553.	.00230	-.00090	.01330
26.097	27.350	25472.	.00230	-.00100	.01520
GRADIENT		-4.43396	-.00001	.00003	.00002

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AMES 12FT 086-1-12 (LA65) SHIPS II

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AMES 12-086 (LA65)

(KNC030) (18 APR 77)

REFERENCE DATA

SREF = .0509 SQ. M. XMRP = .1446 M. XB
 LREF = .1916 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESHIP = 53.000
 FILSHIP = 60.000 TESHP = 7.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 108/ 0 RN/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.607	-2.160	18913.	.00010	-.00010	.00410
19.604	-1.050	18913.	.00020	.00000	.00420
19.555	.030	18965.	.00010	.00010	.00420
19.578	1.140	18913.	.00020	.00010	.00420
19.555	2.210	18965.	.00020	.00010	.00420
19.584	3.320	18960.	.00020	.00020	.00440
19.614	4.370	19056.	.00030	.00020	.00440
19.591	6.560	19056.	.00030	.00020	.00450
19.591	8.720	19056.	.00040	.00030	.00440
19.601	10.900	19056.	.00000	-.00020	.00440
19.584	13.070	19104.	.00070	.00050	.00480
19.558	15.210	19056.	-.00030	.00000	.00520
19.538	17.390	19008.	-.00180	-.00030	.00560
19.519	19.490	19008.	-.00170	-.00010	.00680
19.551	21.630	19104.	-.00050	-.00070	.00800
19.512	23.700	19008.	.00050	-.00130	.00970
19.476	25.720	18960.	-.00050	.00040	.01240
GRADIENT		17.20181	.00002	.00004	.00004

RUN NO. 107/ 0 RN/L = 7.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.255	-2.130	25041.	.00010	.00000	.00380
26.232	-1.080	25041.	.00010	.00010	.00410
26.209	.050	24993.	.00010	.00000	.00410
26.261	1.170	25155.	.00020	.00010	.00400
26.209	2.330	25089.	.00020	.00010	.00400
26.150	3.410	25041.	.00020	.00010	.00410
26.123	4.470	25041.	.00020	.00010	.00430
26.143	6.700	25089.	.00030	.00010	.00430
26.117	8.920	25089.	.00050	.00000	.00430
26.153	11.180	25185.	.00000	-.00010	.00420
26.117	13.400	25137.	.00010	-.00020	.00450
26.100	15.580	25137.	-.00040	-.00040	.00480
26.091	17.770	25137.	.00020	-.00030	.00570
26.071	19.920	25137.	-.00010	-.00020	.00660
26.071	22.090	25155.	.00050	-.00090	.00780
26.037	24.120	25233.	.00030	-.00080	.01020
26.031	26.150	25185.	.00480	-.00320	.01390
GRADIENT		3.13260	.00002	.00001	.00004

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AMES 12FT 086-1-12 (LA65) SHIPS II

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WING V 60-60-0008

AMES 12-086 (LA65)

(KNC031) (18 APR 77)

REFERENCE DATA

SREF =	.0490 SQ. M.	XMRP =	.1456 M. XB
LREF =	.1942 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESHP =	60.000
FILSHP =	60.000	TESHP =	.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 37/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
6.293	-1.920	6033.	-.00010	-.00070	.00180
6.283	-.960	5995.	-.00010	-.00080	.00190
6.283	.070	6033.	-.00030	-.00110	.00210
6.273	1.100	5985.	-.00030	-.00110	.00220
6.270	2.140	5985.	-.00030	-.00090	.00220
6.273	3.130	6033.	-.00040	-.00110	.00210
6.267	4.140	5985.	-.00050	-.00100	.00190
6.263	6.240	5995.	-.00030	-.00070	.00220
6.257	8.250	5985.	-.00030	-.00030	.00200
6.260	10.330	5995.	-.00030	-.00030	.00230
6.250	12.370	5985.	-.00070	-.00070	.00240
6.250	14.430	5985.	-.00080	-.00100	.00260
6.240	16.490	5985.	-.00090	-.00100	.00310
6.247	18.540	5985.	.00060	-.00090	.00380
6.254	20.570	6033.	.00030	-.00120	.00460
6.247	22.650	6033.	.00020	-.00010	.00540
6.247	24.700	6033.	-.00060	.00030	.00590
GRADIENT		-3.35022	-.00006	-.00004	.00003

RUN NO. 36/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.078	-1.980	12545.	-.00010	-.00030	.00280
13.072	-1.000	12592.	-.00010	-.00030	.00280
13.065	.090	12592.	-.00010	-.00030	.00290
13.088	1.170	12640.	-.00010	-.00040	.00290
13.081	2.130	12640.	-.00020	-.00030	.00290
13.085	3.200	12698.	-.00020	-.00030	.00290
13.062	4.230	12640.	-.00030	-.00050	.00300
13.075	6.340	12698.	-.00030	-.00040	.00300
13.022	8.440	12640.	-.00060	-.00110	.00310
13.032	10.540	12640.	-.00090	-.00110	.00300
13.039	12.650	12698.	-.00030	-.00040	.00340
13.029	14.770	12640.	-.00050	.00010	.00350
13.016	16.930	12640.	.00030	.00000	.00400
13.029	18.940	12688.	-.00260	.00040	.00460
12.999	21.070	12640.	-.00340	.00080	.00520
13.062	23.190	12736.	-.00430	.00150	.00590
13.012	25.240	12640.	-.00070	.00070	.00650
GRADIENT		18.12969	-.00003	-.00002	.00003

WING V 60-60-0008

AMES 12-086 (LA65)

(KNC031) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .1456 M. XB
 LREF = .1942 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 60.000
 FILSWP = 60.000 TESWP = .000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 35/ 0 RN/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.551	-2.070	19008.	-.00010	-.00010	.00330
19.551	-1.030	19056.	-.00010	-.00010	.00330
19.594	.050	19152.	-.00010	-.00010	.00320
19.525	1.150	19008.	-.00010	-.00020	.00340
19.561	2.200	19104.	-.00020	-.00020	.00350
19.571	3.290	19152.	-.00020	-.00030	.00330
19.551	4.320	19152.	-.00030	-.00030	.00340
19.549	6.490	19152.	-.00040	-.00050	.00330
19.574	8.610	19248.	-.00040	-.00070	.00330
19.574	10.770	19248.	-.00010	-.00010	.00340
19.614	12.950	19344.	.00010	.00020	.00360
19.551	15.150	19200.	-.00020	.00040	.00400
19.548	17.270	19248.	-.00030	.00010	.00440
19.499	19.370	19152.	-.00100	.00020	.00510
19.512	21.550	19200.	-.00180	.00060	.00570
19.496	23.780	19200.	-.00230	.00090	.00640
19.506	25.970	19200.	-.00050	.00040	.00730
GRADIENT		19.10185	-.00003	-.00004	.00002

RUN NO. 34/ 0 RN/L = 7.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.192	-2.170	25472.	-.00020	.00010	.00350
26.196	-1.050	25568.	-.00020	.00000	.00330
26.097	.090	25424.	-.00010	.00000	.00350
26.097	1.140	25472.	-.00020	-.00010	.00340
26.136	2.210	25568.	-.00020	-.00010	.00340
26.130	3.330	25616.	-.00020	-.00020	.00340
26.117	4.380	25616.	-.00040	-.00020	.00350
26.150	6.610	25712.	-.00040	-.00040	.00370
26.117	8.830	25664.	-.00040	-.00030	.00340
26.136	11.030	25759.	-.00020	.00040	.00340
26.104	13.230	25712.	.00020	.00120	.00370
26.061	15.440	25664.	-.00010	.00090	.00400
26.041	17.610	25664.	-.00040	.00040	.00450
26.045	19.850	25664.	-.00030	.00050	.00510
26.939	22.030	25616.	-.00090	.00070	.00580
26.077	24.300	25807.	-.00170	.00120	.00550
26.054	26.460	25807.	-.00070	.00110	.00730
GRADIENT		21.80850	-.00002	-.00005	.00000

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AMES 12FT 086-1-12 (LA65) SHIPS II

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WING V 60-80-0008

AMES 12-086 (LA65)

(KNC032) (18 APR 77)

REFERENCE DATA

SREF = .0675 SQ. M. XMRP = .3150 M. XB
 LREF = .3284 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 60.000
 FILSWP = 80.000 TESWP = .000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 111/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.065	-2.040	12640.	.00010	.00000	.00260
13.085	-1.030	12688.	.00010	.00000	.00260
13.049	.030	12640.	.00010	.00020	.00280
13.049	1.090	12688.	.00010	.00020	.00290
13.032	2.160	12540.	.00010	.00020	.00280
13.045	3.230	12688.	.00010	.00030	.00290
13.058	4.290	12736.	.00010	.00040	.00300
13.068	6.390	12784.	.00010	.00060	.00300
13.062	8.540	12784.	.00000	.00090	.00310
13.062	10.680	12784.	-.00050	.00080	.00350
13.068	12.870	12832.	.00050	.00100	.00370
13.045	15.030	12784.	-.00120	.00020	.00380
13.009	17.220	12736.	.00080	-.00110	.00350
13.062	19.430	12832.	.00180	-.00170	.00340
13.029	21.640	12784.	.00280	-.00250	.00380
13.052	23.830	12832.	.00300	-.00270	.00410
13.035	26.050	12784.	.00420	-.00380	.00440
GRADIENT		9.68744	.00000	.00006	.00006

RUN NO. 110/ 0 RN/L = 5.92 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.479	-2.130	19056.	.00010	-.00010	.00290
19.463	-1.050	19008.	.00010	-.00010	.00290
19.463	.010	19056.	.00000	.00000	.00300
19.493	1.130	19104.	.00000	.00010	.00310
19.473	2.200	19104.	.00000	.00030	.00310
19.476	3.290	19152.	-.00010	.00030	.00310
19.479	4.380	19152.	-.00010	.00030	.00310
19.450	6.590	19104.	-.00010	.00010	.00330
19.460	8.740	19152.	-.00030	-.00010	.00320
19.455	10.980	19152.	-.00040	-.00050	.00370
19.466	13.260	19200.	-.00080	-.00040	.00400
19.430	15.500	19152.	.00030	.00010	.00430
19.443	17.820	19152.	.00170	-.00170	.00350
19.427	20.090	19152.	.00190	-.00230	.00360
19.387	22.520	19104.	.00250	-.00310	.00390
19.364	24.750	19056.	.00300	-.00360	.00410
19.315	27.060	18960.	.00470	-.00500	.00460
GRADIENT		20.49320	-.00003	.00008	.00004

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AMES 12FT 086-1-12 (LA65) SHIPS II

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WING V 60-80-0008

AMES 12-086 (LA65)

(KNC032) (18 APR 77)

REFERENCE DATA

SREF	=	.0675 SQ. M.	XMRP	=	.3150 M. XB
LREF	=	.3284 METERS	YMRP	=	.0000 M. YB
BREF	=	.3331 METERS	ZMRP	=	.0000 M. ZB
SCALE	=	.0000			

PARAMETRIC DATA

T/C	=	.080	LESWP	=	60.000
FILSWP	=	80.000	TESWP	=	.000
BETA	=	.000	MACH	=	.300
GRITNO	=	120.000			

RUN NO. 109/ 0 RN/L = 7.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.153	-2.210	24945.	.00010	-.00010	.00280
26.186	-1.100	25041.	.00000	.00000	.00280
26.123	.010	24993.	-.00010	.00010	.00290
26.196	1.180	25185.	-.00010	.00020	.00300
26.146	2.280	25089.	.00000	.00030	.00300
26.199	3.380	25233.	-.00010	.00020	.00310
26.186	4.540	25233.	-.00010	.00010	.00310
26.143	6.810	25185.	-.00010	.00020	.00310
26.120	8.990	25185.	-.00050	-.00050	.00330
26.136	11.320	25233.	-.00030	-.00140	.00360
26.136	13.730	25281.	-.00160	-.00090	.00390
26.081	15.990	25233.	-.00030	-.00030	.00410
26.031	18.410	25185.	.00010	-.00080	.00350
26.054	20.970	25233.	.00210	-.00320	.00360
25.989	23.350	25185.	.00260	-.00400	.00380
25.920	25.800	25664.	.00390	-.00460	.00450
25.867	28.250	25568.	.00260	-.00500	.00430
GRADIENT		42.64096	-.00002	.00004	.00005

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AMES 12FT 086-1-12 (LA65) SHIPS 11

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WING V 60-75-0008

AMES 12-086 (LA65)

(KNC033) (18 APR 77)

REFERENCE DATA

SREF = .0584 SQ. M. XMRP = .2344 M. XB
 LREF = .2587 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 60.000
 FILSWP = 75.000 TESWP = .000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 114/ 0 RN/L = 3.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.035	-2.000	12689.	-.00030	.00020	.00290
13.039	-.980	12688.	-.00030	.00020	.00290
13.019	.070	12688.	-.00020	.00040	.00290
13.075	1.090	12784.	-.00020	.00040	.00300
13.068	2.120	12784.	-.00020	.00050	.00290
13.058	3.190	12784.	-.00020	.00040	.00300
13.065	4.200	12784.	-.00020	.00040	.00300
13.039	6.280	12736.	-.00020	.00030	.00310
13.039	8.390	12784.	-.00020	.00020	.00320
13.045	10.450	12784.	-.00030	.00090	.00330
13.026	12.590	12736.	-.00100	.00010	.00360
13.029	14.680	12784.	-.00090	.00020	.00390
13.026	16.790	12784.	-.00090	.00100	.00380
13.009	18.920	12736.	-.00240	.00140	.00370
13.045	21.050	12832.	-.00290	.00140	.00380
13.035	23.140	12784.	.00340	-.00050	.00550
13.029	25.230	12734.	-.01750	.00460	.00540
GRADIENT		19.79815	.00002	.00004	.00002

RUN NO. 113/ 0 RN/L = 5.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.571	-2.060	19104.	-.00020	.00000	.00290
19.545	-.990	19104.	-.00020	.00020	.00290
19.509	.090	19056.	-.00020	.00020	.00300
19.506	1.130	19056.	-.00030	.00020	.00300
19.515	2.160	19104.	-.00020	.00030	.00300
19.532	3.200	19152.	-.00030	.00040	.00310
19.515	4.260	19152.	-.00030	.00020	.00310
19.483	6.390	19104.	-.00010	.00010	.00310
19.506	8.520	19200.	-.00030	-.00040	.00320
19.499	10.650	19200.	-.00050	.00010	.00340
19.525	12.810	19248.	-.00030	.00050	.00360
19.469	14.980	19152.	-.00110	.00030	.00390
19.453	17.110	19152.	-.00060	.00050	.00390
19.443	19.280	19104.	-.00050	.00040	.00380
19.460	21.490	19200.	-.00080	-.00010	.00410
19.466	23.690	19200.	-.00420	.00050	.00500
19.479	25.750	19248.	-.00280	.00070	.00690
GRADIENT		9.67124	-.00002	.00004	.00003

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AMES 12FT 086-1-12 (LA65) SHIPS II

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WING V 60-75-0008

AMES 12-086 (LA65)

(KNC033) (18 APR 77)

REFERENCE DATA

SREF	=	.0584 SQ. M.	XMRP	=	.2344 M. XB
LREF	=	.2587 METERS	YMRP	=	.0000 M. YB
BREF	=	.3331 METERS	ZMRP	=	.0000 M. ZB
SCALE	=	.0000			

PARAMETRIC DATA

T/C	=	.080	LESWP	=	60.000
FILSWP	=	75.000	TESWP	=	.000
BETA	=	.000	MACH	=	.300
GRITNO	=	120.000			

RUN NO. 112/ 0 RN/L = 7.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.248	-2.080	25185.	-.00020	-.00010	.00280
26.218	-1.040	25185.	-.00020	-.00010	.00280
26.186	.050	25137.	-.00020	.00000	.00290
26.209	1.140	25281.	-.00030	.00010	.00300
26.176	2.210	25233.	-.00030	.00010	.00300
26.166	3.290	25281.	-.00030	.00010	.00310
26.169	4.360	25281.	-.00030	.00010	.00310
26.173	6.510	25329.	-.00030	-.00010	.00310
26.176	8.670	25376.	-.00030	-.00050	.00320
26.199	10.810	25424.	-.00020	-.00080	.00340
26.212	13.040	25520.	-.00040	.00030	.00350
26.196	15.250	25520.	.00100	.00090	.00370
26.123	17.530	25376.	-.00370	.00180	.00400
26.113	19.800	25376.	-.00450	.00190	.00370
26.189	21.980	25558.	-.00140	.00070	.00380
26.166	24.160	25568.	-.00150	.00050	.00520
26.189	26.290	25664.	-.00130	.00050	.00720
	GRADIENT	19.10057	-.00002	.00004	.00005

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AMES 12FT 086-1-12 (LA65) SHIPS II

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WING V 60-70-0008

AMES 12-086 (LA65)

(KNC034) (18 APR 77)

REFERENCE DATA

SREF = .0538 SQ. M. XMRP = .1916 M. XB
 LREF = .2258 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 60.000
 FILSWP = 70.000 TESWP = .000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 116/ 0 RN/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.604	-2.110	19152.	-.00050	-.00020	.00420
19.611	-1.030	19200.	-.00040	-.00020	.00420
19.607	.070	19200.	-.00050	-.00020	.00410
19.627	1.170	19248.	-.00040	-.00020	.00400
19.578	2.260	19200.	-.00030	.00000	.00420
19.571	3.340	19200.	-.00030	-.00010	.00410
19.561	4.370	19152.	-.00020	.00000	.00410
19.519	6.550	19104.	-.00010	.00000	.00420
19.538	8.730	19296.	-.00020	-.00020	.00420
19.519	10.940	19248.	.00020	.00000	.00450
19.542	13.150	19200.	.00020	-.00010	.00460
19.515	15.330	19296.	.00090	.00050	.00490
19.489	17.570	19248.	-.00110	-.00040	.00540
19.538	19.790	19344.	-.00080	-.00070	.00620
19.463	21.970	19200.	.00030	-.00020	.00740
19.473	24.190	19248.	-.00400	.00120	.00880
19.535	26.310	19344.	-.00540	.00210	.01100
	GRADIENT	.09134	.00004	.00003	-.00001

RUN NO. 115/ 0 RN/L = 7.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.120	-2.180	25041.	-.00030	-.00020	.00400
26.140	-1.060	25137.	-.00040	-.00020	.00400
26.163	.050	25233.	-.00040	-.00010	.00400
26.127	1.150	25233.	-.00040	-.00010	.00400
26.071	2.240	25137.	-.00030	-.00010	.00410
26.091	3.330	25233.	-.00030	.00000	.00420
26.117	4.460	25281.	-.00020	-.00010	.00420
26.123	6.750	25329.	-.00010	-.00020	.00420
26.136	8.940	25376.	-.00030	-.00090	.00410
26.087	11.210	25329.	-.00040	-.00090	.00430
26.064	13.470	25329.	.00000	-.00040	.00450
26.038	15.770	25329.	.00010	.00030	.00470
26.025	18.070	25329.	-.00300	.00020	.00530
26.081	20.450	25472.	-.00190	.00010	.00610
26.255	22.620	25807.	.00150	-.00060	.00760
25.890	24.750	25137.	.00210	.00010	.00920
25.917	26.960	25233.	.00210	.00180	.01110
	GRADIENT	26.26101	.00002	.00002	.00004

DATE 20 JUN 77

AMES 12FT 086-1-12 (LA65) SHIPS II

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WING V 60-65-0008

AMES 12-086 (LA65)

(KNC035) (18 APR 77)

REFERENCE DATA

SREF =	.0509 SQ. M.	XMRP =	.1645 M. XB
LREF =	.2067 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESWP =	60.000
FILSWP =	65.000	TESWP =	.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 118/ 0 RN/L = 5.93 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.558	-2.140	18913.	-.00010	-.00050	.00490
19.551	-1.080	18950.	-.00020	-.00040	.00490
19.483	.040	18913.	-.00020	-.00040	.00510
19.492	1.150	18960.	-.00020	-.00040	.00500
19.512	2.230	19008.	-.00030	-.00030	.00510
19.489	3.320	18960.	-.00030	-.00040	.00500
19.446	4.440	18913.	-.00030	-.00030	.00510
19.466	6.670	19008.	-.00020	-.00010	.00510
19.456	8.330	19008.	-.00010	.00000	.00490
19.407	11.080	18913.	-.00030	-.00020	.00500
19.450	13.280	19009.	.00020	.00010	.00500
19.433	15.510	19008.	-.00030	.00020	.00560
19.417	17.730	18950.	.00020	-.00010	.00600
19.401	19.990	18960.	-.00080	.00190	.00730
19.453	22.130	19104.	-.00650	.00250	.00870
19.414	24.340	19008.	-.00080	.00080	.01030
19.374	26.540	19056.	.00030	-.00050	.01200
GRADIENT		3.07243	-.00003	.00002	.00003

RUN NO. 117/ 0 RN/L = 7.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.297	-2.260	25089.	.00000	-.00030	.00480
26.212	-1.110	24993.	-.00010	-.00020	.00500
26.225	.020	25089.	-.00010	-.00020	.00500
26.182	1.130	25041.	-.00010	-.00010	.00500
26.156	2.300	25041.	-.00010	-.00010	.00490
26.304	3.470	25329.	-.00010	.00000	.00500
26.215	4.550	25185.	-.00010	-.00010	.00500
26.218	6.860	25233.	-.00010	.00000	.00480
25.182	9.150	25185.	-.00010	.00000	.00470
26.179	11.430	25233.	-.00010	.00010	.00470
25.963	13.750	25281.	.00010	.00030	.00510
26.123	16.010	25185.	-.00010	.00050	.00560
26.166	18.320	25281.	-.00070	.00060	.00650
26.150	20.580	25281.	-.00080	.00190	.00750
25.995	22.820	25424.	-.00090	.00050	.00950
26.123	25.120	25329.	.00010	.00000	.01040
26.133	27.320	25376.	.00070	-.00070	.01250
GRADIENT		28.67489	-.00001	.00003	.00002

DATE 20 JUN 77

AMES 12FT 086-1-12 (LA65) SHIPS II

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WING I 25-25-0012

AMES 12-086 (LA65)

(KNC036) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .0722 M. XB
 LREF = .1591 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .120 LESWP = 25.000
 FILSWP = 25.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 138/ 0 RN/L = 1.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
6.477	-2.040	6177.	-.00056	-.00099	.00200
6.460	-.990	6177.	-.00074	-.00083	.00210
6.457	.040	6177.	-.00060	-.00068	.00220
6.460	1.080	6177.	-.00061	-.00067	.00210
6.470	2.120	6224.	-.00077	-.00065	.00210
6.467	3.180	6224.	-.00063	-.00051	.00210
6.457	4.220	6224.	-.00084	-.00115	.00210
6.454	6.320	6224.	-.00101	-.00091	.00200
6.450	8.430	6224.	-.00086	-.00067	.00230
6.450	10.540	6224.	-.00081	-.00026	.00210
6.454	12.590	6224.	-.00087	-.00047	.00220
6.454	14.730	6224.	-.00082	-.00076	.00210
6.437	16.790	6177.	-.01170	-.00098	.00250
6.457	18.710	6224.	-.00367	.00131	.00410
6.454	20.690	6224.	.00046	-.00174	.00510
6.447	22.660	6224.	.01973	-.01149	.00850
6.460	24.680	6224.	.01589	-.00816	.01060
GRADIENT		9.84051	-.00003	.00001	.00001

RUN NO. 137/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.072	-2.140	12640.	-.00056	-.00099	.00230
13.094	-1.070	12698.	-.00059	-.00072	.00230
13.091	.010	12698.	-.00060	-.00068	.00240
13.117	1.100	12784.	-.00061	-.00067	.00230
13.114	2.190	12784.	-.00063	-.00079	.00240
13.098	3.290	12736.	-.00064	-.00066	.00240
13.078	4.370	12736.	-.00064	-.00051	.00240
13.091	6.570	12736.	-.00079	-.00033	.00250
13.091	8.730	12784.	-.00066	-.00032	.00240
13.072	10.970	12736.	-.00067	-.00031	.00240
13.045	13.150	12736.	-.00058	-.00029	.00230
13.042	15.290	12736.	-.00073	-.00039	.00230
13.035	17.470	12736.	-.00052	-.00058	.00240
13.055	19.630	12784.	-.01461	-.00571	.00250
13.029	21.390	12736.	.01322	-.00694	.00480
13.052	23.400	12784.	.00775	-.00474	.00670
13.039	25.370	12784.	.02152	-.01060	.00920
GRADIENT		15.70016	-.00001	.00005	.00002

WING I 25-25-0012

AMES 12-086 (LA65)

(KNC036) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .0722 M. XB
 LREF = .1591 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .120 LESWP = 25.000
 FILSWP = 25.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 136/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.716	-2.260	19248.	-.00043	-.00045	.00240
19.709	-1.150	19248.	-.00044	-.00032	.00240
19.696	.010	19248.	-.00030	-.00030	.00240
19.679	1.150	19248.	-.00046	-.00030	.00240
19.634	2.250	19200.	-.00046	-.00029	.00230
19.653	3.400	19248.	-.00046	-.00015	.00230
19.614	4.510	19152.	-.00046	-.00014	.00250
19.594	6.810	19152.	-.00047	-.00013	.00250
19.614	9.100	19200.	-.00045	.00002	.00250
19.597	11.390	19200.	-.00063	-.00007	.00230
19.594	13.750	19200.	-.00062	-.00003	.00240
19.571	15.970	19152.	-.00063	-.00002	.00220
19.545	18.320	19104.	-.00053	-.00018	.00230
19.525	20.600	19104.	-.00017	-.00046	.00230
19.637	22.510	19344.	-.00102	-.00012	.00350
19.591	24.320	19248.	.01537	-.00530	.00550
19.597	26.160	19296.	.00731	-.00212	.00810
GRADIENT		-10.54567	-.00001	.00004	-.00000

RUN NO. 135/ 0 RN/L = 7.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.261	-2.450	25281.	-.00029	-.00015	.00250
26.248	-1.280	25281.	-.00015	-.00014	.00250
26.222	-.020	25281.	-.00015	-.00012	.00270
26.196	1.110	25281.	-.00030	.00001	.00260
26.212	2.320	25329.	-.00015	.00002	.00260
26.117	3.530	25137.	-.00029	.00015	.00260
26.159	4.650	25281.	-.00030	.00002	.00250
26.120	7.080	25233.	-.00033	-.00019	.00250
26.140	9.490	25281.	-.00031	-.00004	.00240
26.186	11.890	25376.	-.00046	.00000	.00240
26.120	14.290	25291.	-.00075	.00008	.00230
26.087	16.770	25233.	-.00075	.00011	.00240
26.209	19.090	25568.	-.00068	-.00014	.00260
26.130	21.540	25424.	-.00019	-.00007	.00250
26.159	23.320	25568.	-.01214	.00669	.00340
26.117	25.310	25472.	-.01796	.01217	.00500
26.051	26.890	25376.	.01060	-.00131	.00920
GRADIENT		-7.28330	-.00001	.00004	.00000

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AMES 12FT 086-1-12 (LA65) SHIPS II

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WING I 25-80-0012

AMES 12-086 (LA65)

(KNC037) (18 APR 77)

REFERENCE DATA

SREF = .0734 SQ. M. XMRP = .3152 M. XB
 LREF = .3220 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .120 LESWP = 25.000
 FILSWP = 80.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 125/ 0 RN/L = 3.99 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.065	-2.060	12545.	.00000	-.00004	.00260
13.127	-1.050	12688.	-.00000	.00010	.00260
13.131	.030	12688.	-.00007	.00002	.00270
13.104	1.140	12640.	-.00006	.00010	.00290
13.104	2.170	12688.	-.00006	.00011	.00290
13.088	3.290	12640.	-.00005	.00025	.00290
13.088	4.350	12688.	-.00006	.00011	.00280
13.068	6.530	12640.	-.00003	.00028	.00310
13.062	8.670	12640.	.00010	.00064	.00310
13.081	10.870	12688.	.00024	.00054	.00330
13.098	13.010	12736.	.00217	.00407	.00340
13.117	15.210	12784.	.00193	-.00003	.00360
13.089	17.360	12736.	.00146	-.00180	.00420
13.085	19.540	12736.	.00265	-.00212	.00450
13.049	21.700	12688.	.00375	-.00213	.00540
13.039	23.830	12640.	.00558	-.00487	.00650
13.012	26.010	12592.	.00486	-.00494	.00820
GRADIENT		10.94269	-.00001	.00003	.00005

RUN NO. 124/ 0 RN/L = 5.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.565	-2.160	18865.	-.00000	.00004	.00280
19.591	-1.090	18913.	-.00000	.00004	.00270
19.565	.010	18913.	.00000	.00017	.00290
19.551	1.180	18913.	.00000	.00018	.00280
19.499	2.260	18917.	.00001	.00025	.00290
19.532	3.400	18855.	.00002	.00027	.00280
19.532	4.490	18913.	.00002	.00027	.00290
19.515	6.740	18955.	-.00002	.00035	.00300
19.515	8.950	18913.	-.00004	.00059	.00310
19.568	11.230	19008.	.00018	.00058	.00340
19.545	13.520	19008.	.00122	.00106	.00350
19.538	15.830	19056.	.00627	.00596	.00370
19.506	18.090	19008.	.00193	-.00053	.00410
19.479	20.340	18960.	.00245	-.00145	.00470
19.453	22.580	18950.	.00381	-.00196	.00540
19.476	24.820	19008.	.00512	-.00323	.00670
19.476	27.090	19008.	.00573	-.00550	.00820
GRADIENT		-1.55797	.00000	.00004	.00002

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AMES 12-086 (LA65)

(KNC037) (18 APR 77)

REFERENCE DATA

SREF =	.0734 SQ. M.	XMRP =	.3152 M. XB
LREF =	.3220 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.120	LESWP =	25.000
FILSWP =	80.000	YESWP =	25.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 123/ 0 RN/L = 7.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.287	-2.270	25041.	.00007	-.00001	.00260
26.268	-1.130	25041.	.00000	-.00002	.00280
26.232	.010	25041.	.00000	.00011	.00280
26.156	1.170	25089.	.00000	.00012	.00290
26.130	2.370	25041.	.00001	.00013	.00290
26.091	3.520	24993.	.00001	.00019	.00290
26.061	4.590	24993.	-.00004	.00028	.00290
26.084	6.970	25089.	-.00001	.00044	.00290
25.995	9.310	24945.	-.00011	.00055	.00330
26.045	11.690	25041.	.00020	.00064	.00320
26.031	14.060	25089.	.00107	.00069	.00320
26.005	16.450	25041.	.00493	.00423	.00360
25.999	18.830	25041.	.00818	.00499	.00400
25.933	21.200	24945.	.00492	.00124	.00430
25.943	23.570	24993.	.00592	-.00211	.00540
25.986	25.910	25089.	.00675	-.00428	.00640
25.999	28.170	25137.	.00614	-.00535	.00820
GRADIENT		-7.42809	-.00001	.00004	.00004

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AMES 12FT 086-1-12 (LA65) SHIPS II

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AMES 12-086 (LA65)

(KNC038) (18 APR 77)

REFERENCE DATA

SREF =	.0549 SQ. M.	XMRP =	.1366 M. XB
LREF =	.1936 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.120	LESWP =	25.000
FILSWP =	60.000	TESWP =	25.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 134/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.072	-2.040	12640.	-.00040	-.00030	.00270
13.098	-1.010	12688.	-.00040	.00000	.00280
13.094	.060	12736.	-.00040	.00020	.00290
13.094	1.170	12736.	-.00050	.00010	.00280
13.058	2.180	12688.	-.00050	.00020	.00290
13.068	3.290	12688.	-.00060	.00020	.00280
13.072	4.330	12736.	-.00060	.00020	.00290
13.104	6.490	12784.	-.00070	.00010	.00270
13.068	8.590	12736.	-.00070	.00020	.00270
13.072	10.750	12736.	-.00070	.00030	.00290
13.081	12.930	12784.	-.00050	.00030	.00310
13.065	15.000	12736.	.00080	.00560	.00360
13.062	17.080	12736.	.01840	.00480	.00410
13.026	18.990	12688.	-.00600	.00390	.00600
13.075	21.050	12784.	-.00740	.00450	.00790
13.055	23.060	12736.	-.00620	.00340	.00960
13.042	25.110	12736.	-.00570	.00260	.01100
GRADIENT		8.01463	-.00004	.00006	.00002

RUN NO. 133/ 0 RN/L = 5.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.716	-2.080	19008.	-.00020	.00010	.00280
19.660	-1.040	19104.	-.00020	.00020	.00290
19.653	.060	19152.	-.00040	.00010	.00290
19.607	1.160	19056.	-.00050	.00010	.00290
19.588	2.230	19056.	-.00050	.00020	.00290
19.571	3.320	19056.	-.00060	.00010	.00300
19.571	4.420	19056.	-.00070	.00010	.00290
19.696	6.630	19236.	-.00060	.00020	.00290
19.611	8.850	19152.	-.00080	.00010	.00300
19.630	11.050	19200.	-.00080	.00010	.00290
19.574	13.270	19104.	-.00060	.00020	.00320
19.627	15.420	19248.	.00320	.00580	.00360
19.574	17.530	19152.	.02100	.00470	.00420
19.551	19.440	19104.	-.00020	.00260	.00560
19.509	21.420	19056.	-.00110	.00220	.00710
19.627	23.490	19236.	-.00380	.00240	.00890
19.571	25.600	19200.	-.00510	.00240	.01070
GRADIENT		-1.66294	-.00008	-.00000	.00002

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AMES 12FT 086-1-12 (LA65) SHIPS II

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WING I 25-60-0012

AMES 12-086 (LA65)

(KNC038) (18 APR 77)

REFERENCE DATA

SREF = .0549 SQ. M. XMRP = .1366 M. XB
 LREF = .1936 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .120 LESWP = 25.000
 FILSWP = 60.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 132/ 0 RN/L = 7.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.300	-2.210	25041.	-.00030	.00000	.00260
26.123	-1.080	24754.	-.00040	-.00010	.00260
26.274	.040	25137.	-.00030	-.00010	.00270
26.251	1.170	25185.	-.00050	.00000	.00270
26.235	2.370	25185.	-.00050	.00000	.00270
26.110	3.440	24993.	-.00050	.00000	.00270
26.140	4.540	25089.	-.00060	.00000	.00260
26.107	6.860	25089.	-.00070	.00010	.00260
26.100	9.080	25089.	-.00070	.00010	.00280
26.084	11.380	25089.	-.00070	.00020	.00290
26.045	13.650	25041.	-.00070	.00020	.00280
26.041	15.910	25089.	.00230	.00310	.00320
26.071	18.120	25185.	.01120	.00650	.00350
26.028	20.130	25137.	.01690	-.00200	.00510
25.979	22.130	25089.	.01900	-.00530	.00680
26.068	24.180	25281.	.01750	-.00460	.00850
26.031	26.250	25281.	.01070	-.00230	.00920
	GRADIENT	21.34014	-.00004	.00001	.00001

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AMES 12FT 086-1-12 (LA65) SHIPS II

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WING II 35-35-WEDGE

AMES 12-086 (LA65)

(KNC039) (18 APR 77)

REFERENCE DATA

SREF =	.0490 SQ. M.	XMRP =	.0878 M. XB
LREF =	.1649 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.080	LESWP =	35.000
FILSWP =	35.000	TESWP =	20.000
BETA =	.000	MACH =	.300
GRITNO =	120.000		

RUN NO. 119/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.091	-2.100	12449.	-.00040	-.00030	.00260
13.072	-1.000	12449.	-.00040	-.00020	.00270
13.108	.130	12497.	-.00050	-.00020	.00260
13.026	1.140	12545.	-.00040	-.00030	.00250
13.078	2.180	12497.	-.00050	-.00020	.00240
13.081	3.230	12497.	-.00050	-.00020	.00230
13.068	4.320	12497.	-.00050	-.00010	.00220
13.065	6.510	12497.	-.00050	-.00010	.00210
13.058	8.640	12497.	-.00110	.00000	.00190
13.049	10.840	12497.	-.00020	.00020	.00190
13.058	12.980	12497.	.00120	-.00010	.00240
13.068	14.960	12545.	.00040	.00000	.00360
13.055	17.030	12545.	-.00080	.00040	.00560
13.055	19.070	12545.	-.00140	.00000	.01000
13.045	21.010	12545.	-.00120	.00030	.01320
13.026	23.050	12497.	.00040	-.00050	.01470
13.026	25.150	12497.	.00100	-.00070	.01880
	GRADIENT	8.11940	-.00002	.00002	-.00007

WING II 35-80-WEDGE

AMES 12-086 (LA65)

(KNC040) (18 APR 77)

REFERENCE DATA

SREF = .0723 SQ. M. XMRP = .3162 M. XB
 LREF = .3215 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 35.000
 FILSWP = 80.000 TESWP = 20.000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 120/ 0 RN/L = 3.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.022	-2.020	12305.	.00000	.00000	.00040
13.019	-.990	12305.	.00000	.00000	.00040
13.012	.080	12305.	.00000	.00030	.00050
13.006	1.130	12305.	.00000	.00020	.00050
12.999	2.190	12305.	-.00010	.00030	.00050
12.983	3.250	12305.	-.00020	.00030	.00050
12.983	4.350	12305.	-.00020	.00050	.00050
12.973	6.560	12305.	-.00030	.00050	.00060
12.950	8.700	12257.	-.00040	.00060	.00070
12.937	10.930	12257.	.00090	.00010	.00100
12.934	13.100	12257.	-.00040	.00050	.00120
12.921	15.370	12257.	-.00060	.00040	.00120
12.917	17.560	12257.	.00060	-.00050	.00100
12.888	19.800	12209.	.00080	-.00150	.00110
12.868	22.060	12209.	.00020	-.00150	.00110
12.832	24.310	12162.	.00040	-.00220	.00090
12.871	26.600	12257.	.00090	-.00120	.00080
	GRADIENT	.00007	-.00004	.00007	.00002

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AMES 12FT 086-1-12 (LA65) SHIPS II

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WING V 60-60-WEDGE

AMES 12-086 (LA65)

(KNCO41) (18 APR 77)

REFERENCE DATA

SREF	=	.0490 SQ. M.	XMRP	=	.1456 M. XB
LREF	=	.1942 METERS	YMRP	=	.0000 M. YB
BREF	=	.3331 METERS	ZMRP	=	.0000 M. ZB
SCALE	=	.0000			

PARAMETRIC DATA

T/C	=	.080	LESWP	=	60.000
FILSWP	=	60.000	TESWP	=	.000
BETA	=	.000	MACH	=	.300
GRITNO	=	120.000			

RUN NO. 121/ 0 RN/L = 4.00 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.176	-2.020	12689.	-.00020	.00050	.00210
13.173	-1.000	12688.	-.00020	.00050	.00220
13.150	.050	12640.	-.00030	.00060	.00220
13.154	1.090	12688.	-.00030	.00060	.00210
13.160	2.150	12688.	-.00020	.00060	.00210
13.134	3.190	12640.	-.00020	.00060	.00220
13.137	4.250	12688.	-.00020	.00060	.00200
13.127	6.420	12640.	-.00030	.00060	.00220
13.134	8.470	12688.	-.00040	.00070	.00200
13.108	10.590	12640.	-.00090	.00050	.00220
13.124	12.710	12688.	-.00070	.00060	.00230
13.091	14.770	12640.	.00000	.00030	.00320
13.072	16.880	12592.	-.00050	.00060	.00390
13.081	18.990	12640.	-.00150	.00070	.00420
13.072	21.100	12640.	-.00110	.00050	.00510
13.072	23.220	12640.	-.00200	.00090	.00600
13.167	25.310	12832.	-.00150	.00080	.00760
GRADIENT	-1.62067	.00000	.00002	-.00001	

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AMES 12FT 086-1-12 (LA65) SHIPS II

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WING V 60-80-WEDGE

AMES 12-086 (LA65)

(KNC042) (18 APR 77)

REFERENCE DATA

SREF = .0675 SQ. M. XMRP = .3150 M. XB
 LREF = .3284 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 60.000
 FILSWP = 80.000 TESWP = .000
 BETA = .000 MACH = .300
 GRITNO = 120.000

RUN NO. 122/ 0 RN/L = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.052	-2.030	12401.	-.00030	.00000	.00090
13.062	-1.040	12401.	-.00030	.00000	.00100
13.039	.030	12401.	-.00030	.00020	.00100
13.042	1.090	12449.	-.00030	.00010	.00100
13.016	2.150	12401.	-.00030	.00020	.00110
12.976	3.150	12353.	-.00040	-.00030	.00110
12.996	4.290	12401.	-.00040	-.00010	.00110
12.986	6.500	12401.	-.00040	.00000	.00120
12.989	8.590	12401.	-.00070	.00010	.00140
13.003	10.760	12449.	-.00050	.00020	.00160
12.996	12.960	12449.	.00030	.00040	.00140
12.983	15.130	12449.	.00010	.00030	.00110
12.967	17.320	12401.	.00050	-.00010	.00160
12.953	19.560	12401.	.00080	-.00030	.00210
12.921	21.760	12353.	.00140	-.00130	.00230
12.904	24.000	12353.	.00220	-.00180	.00260
12.891	26.170	12305.	.00280	-.00190	.00280
GRADIENT	-3.18149		-.00002	-.00003	.00003

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AMES 12FT 086-1-12 (LA65) SHIPS II

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WING I 25-25-0012

AMES 12-086 (LA65)

(KNC043) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .0722 M. XB
 LREF = .1591 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .120 LESWP = 25.000
 FILSWP = 25.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = .000

RUN NO. 144/ 0 RN/L = 1.87 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
6.195	-2.010	5985.	-.00015	-.00004	.00280
6.178	-1.020	5985.	-.00016	.00041	.00280
6.162	.080	5985.	-.00030	-.00013	.00260
6.158	1.090	5985.	-.00031	-.00037	.00260
6.159	2.090	5985.	-.00031	-.00028	.00270
6.149	3.140	5985.	-.00031	-.00014	.00270
6.149	4.150	5985.	-.00031	-.00014	.00270
6.155	6.310	5985.	-.00017	-.00016	.00270
6.149	8.380	5985.	-.00035	-.00029	.00260
6.149	10.490	5985.	-.00036	-.00029	.00260
6.142	12.560	5985.	-.00040	-.00042	.00260
6.145	14.630	5985.	-.00038	-.00028	.00250
6.132	16.680	5937.	-.00094	-.00154	.00310
6.132	18.670	5937.	-.00130	-.00057	.00450
6.122	20.630	5937.	-.00133	-.00012	.00570
6.126	22.680	5937.	.00197	-.00190	.00700
6.113	24.650	5937.	.00195	-.00114	.01020
GRADIENT		-.00002	-.00003	-.00005	-.00001

RUN NO. 143/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.062	-2.130	12449.	-.00014	-.00014	.00230
13.098	-1.080	12592.	-.00014	-.00027	.00260
13.101	.010	12640.	-.00015	-.00024	.00250
13.045	1.120	12592.	-.00015	-.00016	.00270
13.052	2.170	12640.	-.00016	-.00028	.00270
13.088	3.270	12735.	-.00015	-.00002	.00260
13.055	4.350	12688.	-.00015	-.00001	.00250
13.058	6.540	12698.	-.00032	-.00015	.00250
13.035	8.680	12640.	-.00033	-.00016	.00240
13.042	10.930	12689.	-.00033	-.00014	.00230
13.068	13.100	12736.	-.00020	-.00018	.00230
13.055	15.310	12736.	.00009	-.00025	.00230
13.032	17.490	12688.	-.00052	-.000495	.00250
13.042	19.600	12736.	-.01426	-.00519	.00280
13.042	21.380	12736.	.01122	-.00630	.00530
13.026	23.280	12736.	.00167	-.00106	.00670
13.019	25.320	12688.	-.00041	.00054	.00900
GRADIENT		33.06424	-.00000	.00003	.00003

WING I 25-25-0012

AMES 12-086 (LA65)

(KNC043) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .0722 M. XB
 LREF = .1591 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .120 LESWP = 25.000
 FILSWP = 25.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = .000

RUN NO. 142/ 0 RN/L = 5.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.597	-2.250	18960.	.00001	-.00019	.00260
19.660	-1.140	19104.	.00000	-.00007	.00260
19.607	-.020	19056.	-.00000	.00008	.00270
19.584	1.140	19056.	-.00000	-.00005	.00280
19.574	2.310	19056.	-.00000	-.00007	.00260
19.555	3.390	19008.	-.00000	-.00007	.00270
19.555	4.500	19056.	-.00001	-.00008	.00260
19.519	6.800	19008.	-.00016	-.00008	.00260
19.601	9.070	19200.	-.00046	-.00002	.00250
19.588	11.370	19152.	-.00046	-.00002	.00240
19.568	13.670	19152.	-.00047	-.00001	.00240
19.597	15.960	19248.	-.00076	.00006	.00230
19.548	18.240	19152.	-.00080	-.00004	.00240
19.555	20.510	19200.	-.00111	-.00040	.00270
19.515	22.460	19152.	-.00296	.00030	.00380
19.512	24.240	19152.	.00419	-.00310	.00580
GRADIENT		3.00716	-.00000	.00001	.00000

RUN NO. 141/ 0 RN/L = 7.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.166	-2.440	24993.	.00015	-.00006	.00250
26.153	-1.230	24993.	.00000	-.00007	.00260
26.117	-.020	24945.	.00015	.00029	.00260
26.136	1.150	25041.	.00016	.00028	.00270
26.123	2.350	25041.	.00001	.00014	.00260
26.104	3.550	25041.	.00001	.00014	.00260
26.084	4.610	24993.	.00002	.00026	.00250
26.097	7.140	25089.	.00018	.00022	.00250
26.068	9.440	25041.	.00004	.00023	.00240
26.097	11.850	25137.	-.00015	.00003	.00240
26.074	14.220	25137.	-.00029	.00006	.00240
26.071	15.430	25137.	-.00047	-.00002	.00240
26.022	16.650	25041.	-.00062	.00001	.00230
26.035	19.050	25137.	-.00048	-.00002	.00250
25.949	21.410	24993.	-.00005	-.00012	.00270
25.933	23.210	24993.	-.00310	.00531	.00380
25.963	25.000	25137.	-.00591	.00683	.00520
25.953	26.840	25137.	.00993	-.00149	.00780
GRADIENT		5.75379	-.00002	.00004	.00000

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AMES 12-086 (LA65)

(KNC044) (18 APR 77)

REFERENCE DATA

SREF =	.0734 SQ. M.	XMRP =	.3152 M. XB
LREF =	.3220 METERS	YMRP =	.0000 M. YB
BREF =	.3331 METERS	ZMRP =	.0000 M. ZB
SCALE =	.0000		

PARAMETRIC DATA

T/C =	.120	LESWP =	25.000
FILSWP =	80.000	TESWP =	25.000
BETA =	.000	MACH =	.300
GRITNO =	.000		

RUN NO. 129/ 0 RN/L = 1.91 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
6.270	-1.990	5985.	.00010	.00090	.00230
6.247	-.970	5985.	.00012	.00093	.00220
6.250	.030	5985.	.00007	.00066	.00240
6.254	1.080	6033.	.00015	.00096	.00240
6.250	2.150	6033.	.00011	.00104	.00260
6.263	3.150	6033.	.00012	.00098	.00260
6.250	4.170	6033.	.00015	.00112	.00260
6.254	6.310	6033.	.00034	.00125	.00270
6.250	8.350	6033.	.00030	.00116	.00280
6.254	10.510	6033.	.00033	.00103	.00290
6.254	12.570	6033.	.00159	.00405	.00310
6.254	14.640	6033.	.00226	.00074	.00340
6.250	16.770	6033.	.00282	-.00057	.00380
6.260	18.620	6033.	.00210	-.00148	.00440
6.250	20.950	6033.	.00406	-.00301	.00500
6.254	23.000	6033.	.00347	-.00172	.00580
6.244	25.070	6033.	.00258	-.00030	.00710
GRADIENT		9.96579	.00001	.00004	.00007

RUN NO. 128/ 0 RN/L = 3.96 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.009	-2.070	12640.	.00008	-.00033	.00260
12.996	-.950	12640.	.00001	-.00062	.00270
12.996	.090	12640.	-.00000	-.00041	.00260
12.989	1.120	12699.	-.00009	-.00046	.00270
12.999	2.190	12699.	-.00008	-.00032	.00290
13.006	3.270	12784.	-.00009	-.00042	.00280
12.999	4.370	12736.	-.00009	-.00035	.00270
12.986	6.500	12736.	-.00010	-.00027	.00290
12.999	8.670	12736.	-.00029	-.00016	.00300
12.963	10.840	12699.	-.00001	-.00004	.00330
12.973	13.050	12688.	.00223	.00433	.00330
12.976	15.220	12736.	.00203	.00011	.00350
12.990	17.410	12736.	.00105	-.00112	.00410
12.953	19.570	12699.	.00197	-.00181	.00460
12.950	21.730	12699.	.00206	-.00042	.00530
12.940	23.920	12640.	.00414	-.00301	.00660
12.927	26.010	12640.	.00561	-.00508	.00800
GRADIENT		20.80752	-.00003	.00001	.00003

WING I 25-80-0012

AMES 12-086 (LA65)

(KNC044) (18 APR 77)

REFERENCE DATA

SREF = .0734 SQ. M. XMRP = .3152 M. XB
 LREF = .3220 METERS YMRP = .0000 M. YB
 DREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000..

PARAMETRIC DATA

T/C = .120 LESWP = 25.000
 FILSWP = 80.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = .000

RUN NO. 127/ 0 RN/L = 5.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.469	-2.270	19008.	.00013	.00011	.00290
19.483	-1.130	19056.	.00013	.00024	.00290
19.469	.000	19056.	.00007	.00010	.00290
19.463	1.160	19056.	.00007	.00018	.00300
19.476	2.260	19104.	.00008	.00025	.00280
19.529	3.380	19200.	.00008	.00024	.00290
19.496	4.530	19152.	.00016	.00031	.00310
19.506	6.750	19200.	.00011	.00033	.00300
19.502	8.960	19200.	.00001	.00047	.00340
19.506	11.270	19248.	.00008	.00040	.00320
19.529	13.540	19296.	.00113	.00072	.00340
19.519	15.910	19296.	.00649	.00548	.00370
19.483	19.110	19248.	-.00035	-.00320	.00430
19.453	20.380	19152.	.00151	-.00110	.00470
19.460	22.650	19200.	.00255	-.00168	.00550
19.466	24.850	19200.	.00563	-.00404	.00690
19.414	27.090	19152.	.00426	-.00398	.00800
	GRADIENT	24.13148	.00000	.00002	.00002

RUN NO. 126/ 0 RN/L = 7.91 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.074	-2.220	25185.	.00006	.00017	.00300
26.068	-1.070	25233.	.00006	.00024	.00280
26.054	-.010	25233.	-.00000	.00030	.00290
26.015	1.180	25185.	.00007	.00031	.00280
25.995	2.340	25137.	.00008	.00032	.00280
26.091	3.500	25376.	.00016	.00037	.00280
26.094	4.630	25424.	.00010	.00039	.00280
26.012	6.950	25281.	-.00001	.00048	.00300
26.104	9.290	25472.	-.00009	.00067	.00300
25.995	11.640	25281.	.00029	.00076	.00330
26.012	14.050	25376.	.00115	.00101	.00350
25.989	16.490	25376.	.00507	.00513	.00370
25.713	18.860	25233.	.00364	.00056	.00410
25.713	21.170	25233.	.00345	-.00070	.00470
25.821	23.560	25472.	.00527	-.00226	.00550
25.851	25.910	25569.	.00647	-.00393	.00660
25.829	28.180	25568.	.00531	-.00534	.00820
	GRADIENT	28.46778	.00001	.00003	-.00002

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AMES 12-086 (LA65)

(KNC045) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .0722 M. XB
 LREF = .1591 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 25.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = .000

RUN NO. 148/ 0 RN/L = 1.90 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
6.280	-2.050	6081.	-.00010	.00070	.00470
6.273	-1.010	6033.	-.00010	.00080	.00490
6.267	.030	6033.	-.00020	.00060	.00490
6.263	1.110	6033.	-.00020	.00070	.00470
6.247	2.160	6033.	-.00020	.00040	.00470
6.244	3.220	6033.	-.00020	.00050	.00490
6.237	4.190	6033.	-.00020	.00040	.00470
6.231	6.330	6033.	-.00020	.00040	.00490
6.234	8.400	6033.	-.00020	.00040	.00470
6.224	10.500	6033.	-.00020	.00030	.00450
6.224	12.650	6033.	-.00060	-.00070	.00480
6.221	14.670	6033.	-.00040	-.00020	.00500
6.214	16.760	6033.	-.00040	.00030	.00560
6.227	18.780	6033.	-.00050	.00000	.00760
6.224	20.760	6033.	.00170	-.00060	.00930
6.208	22.740	6033.	.00610	-.00300	.01190
6.195	24.740	5995.	.02580	-.01150	.01840
GRADIENT		-4.90395	-.00002	-.00006	-.00001

RUN NO. 147/ 0 RN/L = 3.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.049	-2.100	12640.	-.00020	.00000	.00470
13.032	-1.070	12640.	-.00030	.00000	.00470
13.019	.040	12640.	-.00030	.00010	.00480
12.983	1.110	12640.	-.00010	.00010	.00510
12.980	2.230	12640.	-.00010	.00000	.00530
12.993	3.300	12698.	-.00020	.00000	.00520
13.016	4.430	12736.	-.00020	-.00010	.00500
12.993	6.660	12698.	-.00010	.00000	.00520
12.973	8.770	12640.	-.00020	.00000	.00520
12.993	11.030	12698.	-.00050	-.00040	.00510
12.985	13.210	12698.	-.00100	-.00100	.00530
12.983	15.330	12698.	.00040	.00030	.00560
12.976	17.340	12698.	.00610	-.00360	.00640
13.022	19.430	12794.	.00500	-.00330	.00820
12.996	21.450	12736.	.00440	-.00270	.00980
13.006	23.430	12784.	.00770	-.00370	.01280
12.996	25.450	12736.	.02920	-.01280	.01930
GRADIENT		12.60265	.00001	-.00001	.00008

WING I 25-25-0008

AMES 12-086 (LA65)

(KNC045) (18 APR 77)

REFERENCE DATA

SREF = .0490 SQ. M. XMRP = .0722 M. XB
 LREF = .1591 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 25.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = .000

RUN NO. 146/ 0 RN/L = 5.94 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.512	-2.190	19008.	-.00040	.00040	.00530
19.499	-1.150	19008.	-.00020	.00050	.00540
19.607	.040	19200.	-.00010	.00040	.00540
19.555	1.210	19152.	-.00010	.00040	.00540
19.538	2.310	19104.	.00000	.00040	.00550
19.522	3.440	19104.	.00010	.00030	.00520
19.519	4.570	19104.	.00000	.00030	.00530
19.509	6.850	19152.	.00030	.00030	.00540
19.496	9.260	19152.	.00030	.00020	.00540
19.483	11.460	19152.	-.00080	-.00060	.00540
19.509	13.750	19200.	.00010	-.00060	.00550
19.469	16.020	19152.	-.00100	-.00020	.00600
19.466	18.110	19200.	-.00300	.00030	.00670
19.437	20.090	19152.	.00180	-.00230	.00850
19.440	22.170	19152.	.00480	-.00290	.01060
19.417	24.050	19152.	.02130	-.01060	.01780
19.374	26.040	19056.	.02910	-.01240	.02050
GRADIENT			12.17647	.00006	-.00002

RUN NO. 145/ 0 RN/L = 7.90 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
25.969	-2.340	24950.	-.00020	.00020	.00540
25.986	-1.120	24945.	-.00020	.00050	.00520
25.992	-.010	24993.	-.00020	.00030	.00540
25.949	1.190	24945.	-.00020	.00030	.00540
25.959	2.390	24945.	-.00010	.00030	.00540
25.959	3.560	24993.	-.00010	.00020	.00510
25.999	4.780	25137.	-.00010	.00020	.00520
25.969	7.180	25089.	-.00020	.00010	.00520
25.923	9.540	25041.	.00010	.00000	.00530
25.917	11.940	25041.	-.00100	-.00090	.00510
25.913	14.370	25089.	-.00120	-.00040	.00550
25.923	16.690	25137.	-.00080	.00070	.00590
25.881	18.810	25089.	.00750	-.00120	.00670
25.881	20.690	25089.	.00940	-.00650	.00860
25.864	22.790	25089.	.01490	-.00360	.01110
25.917	24.720	25281.	.02470	-.01240	.01730
25.838	26.740	25137.	.03110	-.01330	.02120
GRADIENT			27.52245	.00002	-.00002

DATE 20 JUN 77

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AMES 12-086 (LA65)

(KNC046) (18 APR 77)

REFERENCE DATA

SREF = .0734 SQ. M. XMRP = .3152 M. XB
 LREF = .3220 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0050

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 80.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = .000

RUN NO. 13/ 0 RN/L = 1.95 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
6.427	-1.990	5937.	.00040	.00100	.00160
6.424	-.960	5985.	.00050	.00130	.00160
6.414	.070	5985.	.00050	.00130	.00170
6.411	1.120	5985.	.00040	.00100	.00160
6.401	2.140	5985.	.00060	.00180	.00160
6.382	3.190	5937.	.00050	.00140	.00170
6.388	4.220	5985.	.00050	.00130	.00180
6.382	6.320	5985.	.00050	.00120	.00180
6.388	8.380	5985.	.00070	.00180	.00190
6.375	10.500	5985.	.00110	.00430	.00210
6.378	12.600	5985.	.00080	.00150	.00210
6.365	14.680	5985.	.00140	.00150	.00210
6.372	16.810	5985.	.00130	.00070	.00220
6.359	18.910	5985.	.00100	-.00020	.00260
6.359	21.010	5985.	.00140	-.00020	.00280
6.349	23.120	5985.	.00190	-.00080	.00300
6.359	25.220	5985.	.00200	-.00090	.00340
GRADIENT		1.63508	.00001	.00005	.00002

RUN NO. 12/ 0 RN/L = 3.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
13.078	-2.070	12305.	.00020	.00040	.00180
13.078	-1.010	12353.	.00020	.00060	.00170
13.072	.070	12353.	.00010	.00050	.00170
13.072	1.160	12353.	.00010	.00040	.00180
13.058	2.240	12353.	.00010	.00070	.00170
13.065	3.330	12401.	.00020	.00080	.00180
13.055	4.350	12353.	.00010	.00030	.00180
13.029	6.510	12353.	.00010	.00080	.00190
13.039	8.700	12353.	.00030	.00120	.00200
13.049	10.880	12401.	.00140	.00330	.00200
13.052	13.100	12401.	.00080	.00050	.00210
13.068	15.290	12449.	.00070	-.00060	.00220
13.029	17.500	12401.	.00160	-.00040	.00240
13.026	19.720	12401.	.00100	-.00010	.00250
13.009	21.960	12401.	.00120	-.00090	.00290
13.055	24.180	12497.	.00170	-.00130	.00320
13.029	26.350	12449.	.00110	-.00160	.00360
GRADIENT		7.96895	-.00001	.00001	.00001

WING I 25-80-0008

AMES 12-086 (LA65)

(KNC046) (18 APR 77)

REFERENCE DATA

SREF = .0734 SQ. M. XMRP = .3152 M. XB
 LREF = .3220 METERS YMRP = .0000 M. YB
 BREF = .3331 METERS ZMRP = .0000 M. ZB
 SCALE = .0000

PARAMETRIC DATA

T/C = .080 LESWP = 25.000
 FILSWP = 80.000 TESWP = 25.000
 BETA = .000 MACH = .300
 GRITNO = .000

RUN NO. 11/ 0 RN/L = 5.97 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
19.673	-2.170	18577.	.00030	.00010	.00180
19.670	-1.050	18625.	.00030	.00000	.00190
19.650	.080	18625.	.00020	.00010	.00170
19.597	1.180	18577.	.00020	.00010	.00190
19.591	2.310	18577.	.00020	.00020	.00180
19.581	3.390	18577.	.00020	.00030	.00190
19.578	4.490	18625.	.00020	.00050	.00200
19.591	6.750	18673.	.00020	.00040	.00200
19.571	9.050	18673.	.00030	.00050	.00220
19.591	11.320	18721.	.00060	.00050	.00220
19.588	13.630	18769.	.00040	-.00020	.00220
19.561	15.940	18721.	.00060	-.00050	.00240
19.555	18.270	18721.	.00080	-.00100	.00250
19.555	20.600	18769.	.00080	-.00060	.00280
19.565	22.920	18817.	.00140	-.00100	.00330
19.542	25.170	18817.	.00120	-.00170	.00380
19.568	27.370	18865.	.00030	-.00170	.00490
GRADIENT		-.00989	-.00002	.00006	.00002

RUN NO. 10/ 0 RN/L = 7.98 GRADIENT INTERVAL = -5.00/ 5.00

RN/M	ALPHA	Q(NSM)	CSL	CLN	CPCAV
26.291	-2.240	24658.	.00030	.00050	.00190
26.248	-1.100	24610.	.00040	.00040	.00180
26.189	.040	24562.	.00040	.00050	.00180
26.238	1.180	24706.	.00030	.00030	.00180
26.205	2.320	24706.	.00030	.00030	.00190
26.143	3.470	24610.	.00020	.00040	.00190
26.159	4.630	24706.	.00020	.00040	.00190
26.123	7.000	24658.	.00020	.00050	.00180
26.130	9.370	24706.	.00040	.00070	.00200
26.176	11.750	24850.	.00050	.00050	.00210
26.159	14.200	24850.	.00260	.00530	.00220
26.127	16.620	24850.	.00040	-.00010	.00230
26.107	19.080	24802.	.00070	-.00030	.00250
26.189	21.540	25041.	.00040	-.00040	.00280
26.153	23.940	24993.	.00160	-.00130	.00330
26.094	26.240	24945.	.00090	-.00210	.00390
26.156	28.490	25089.	.00070	-.00290	.00540
GRADIENT		8.97198	-.00002	-.00002	.00001